CHAPTER 4

DATA COLLECTED AND RESULTS OF DEMAND FORECAST

Telephone Density and GDP/Capita in 1992

			COD	GDP/Capita	Main Line	Waiting List	Teledensity	Demand Density
		Population	GDP (millions)	(US\$)	(1000 lines)	(1000 lines)	(DEL's	(DEL's +Waiters
No.	Country	(millions)	(mittions)	(033)	(1000 Hines)	(1000 lines)	/100persons)	/100persons)
					962.3	756.9	3 66	6.54
. 1	Algeria	26 3	35,674	1,356		373.7	11 36	12.49
2	Argentina	33.1	228,779	6,912	3,759 2	1	47.18	47.21
3	Australia	17.5	294,760	16,843	8,257.0	43		
4	Bangladesh	114.)	23,783	208	2563	121 5	0.22	0 33
5	Relgium	100	218,836	21,884	4,264.3	6.7	42 64	42 71
6	Brazil	153 9	360,495	2,342	10,670.1	5103	6.93	7 26
.7	Cameroon	12.2	10,397	852	520	9.0	0.43	0.50
8.	Canada	27.4	493,692	18,015	16,246 6	0.0	59 29	59.29
.9	Chife	136	41,203	3,03 0	1,213 2	313.7	\$ 92	11 23
10	China	1,162 2	506,075	435	11,469.1	1,620.4	0.99	1.13
11	Colombia	33.4	48,583	1,455	2,82).7	650.0	8.45	10 39
12	Cote D'Ivore	129	8,726	676	86.1	36 2	0.67	0.95
13	Czech Republic	10.3	26,187	2,542	1,818.6	490.3	17.66	22 42
14	Ecuador	11.0	12,681	1,153	531.3	95.6	4.83	5.70
15	Egypt	54.7	33,553	613	: 2,173.6	1,267.5	3 97	6 29
16	France	57.4	1,319,883	22,994	29,905 3	1,267.5	52 10	5431
17	Germany	80.6	1,789,261	22,199	35,420 8	1,200.0	43.95	45.44
18	Ghana	158	6,884	436	47.8	9.7	0.30	0 36
19	Greece	103	67,278	6,532	4,496 5	658 6	43.66	50,05
20	Hungary	(0.3	35,218	3,419	1,291 1	753.0	- ; 12.53	19.85
21	India	883.6	214,598	243	6,796.7	2,845 9	0.77	1.09
22	Indonesia	184.3	126,364	686	1,485.3	225.7	0.81	0.93
23	Iran	59.6	110,258	1,850	2,997.9	508.0	5.03	5,88
24	Italy	57.8	1,222,963	21,150	23,709.0	45.0	41.02	41 10
25	Japan	124.5	3,670,979	29,486	57,652 3	0.0	46.31	46 31
26	Kenya	25.7	6,884	268	207.4	880	081	1.15
27	Kerea(Rep. of)	43.7	296,136	6,717	15,865.1	0.0	36.30	36.30
28	Madagascar	124	2,767	223	36.6	3.4	0.30	0.32
29	Malaysia	18.6	57,568	3,075	2,091.6	168.7	11 25	12.15
30	Mexico	\$5.0	329,011	3,871	6,753.7	662.5	7,95	8.72
31	Morocco	26 2	28,401	1,084	653.9	134.6	2 50	3.01
32	Netherlands	15 2	320,290	21,072	7,395.0	20.0	48.65	48.78
33	Nigeria	101.9	29,667	291	320 9	243.1	031	0.55
34	Pakistan	119.3	41,904	351	1,243.6	743.4	1.04	1.67
35	Peru	22 4	22,100	987	613.7	346 2	2.74	4 29
36	Philippines	643	52,462	816	660 6	789.3	1 03	2.25
37	Poland	38.4	83,823	2,183	3,945.0	2,422.0	10 27	16.58
38		22.7	24,438	1,077	2,574.1	1,026.9	11 34	15.86
39	Komania Saudi Azabia	16.8	111,343	6,628	1,568.4	399.9	934	11.72
40	South Africa	39.8	103,651	2,604	3,5241	120,4	8 85	9.16
41		39.1	574,844	14,702	13,792.2	74.0	35 27	35.46
F .	Spain Spain	17.4	8,769	504	135.5	96 2	0.78	1.33
	Sri Lanka	13.0	17,236	1,326	513.4	1,720.0	3.95	17.18
1	Syria			1,326	1,790.0	1,593.8	309	5.83
	Thailand	58 O	110,337		9,471.9	1,202.9	16.19	18 25
	Turkey	58.5	99,696	1,704	1 1	1,2029	45.13	45.13
46	United Kingdom	57.8	903,126	15,625	26,084.0 144,056.7	00	\$6.40	56.40
47	United States	255.4	5,920,199		1		36.47 893	20.40 11.72
48	Venezuela	20 2	61,137	1 1	1,8043	5623		v ·
49	Yemen Rep.	13.0	9,615 \$435	740	143.4	98.0	1 I 0 1 22	1.86 208
50	Zimbabwe	10.4	5,035	484 1004 (Madd)	127.1	88.8	Rank (Popula	

Basic Data Source World Development Report 1994 (World Bank), published by the World Bank (Population & GDP at 199
II U Statistical Yearbook 1994, "Chronological Series 1985 - 1992", published by II U
(Main Lines and Walting Lines at 1992)

World Mobile Telephone Service in 1993

	Country	Population	Subscribers	Mobile Telephone	Subscribers Sub./100Pop.	Mobile Sub./1000Pop.
1	Algeria	26.7	1,068,090	4,781	4.00	
2	Burundi	6.0	15,550	320	0.26	0.0
3	Fgypt	56.4	2,374,790	7,550	4.21	- 0.1
4	Gabon	1.0	29,830	1,200	2.98	1.2
\$	Gambia	1.0	16,270	379	1.63	0.3
6	Ghana	16.4		1,742	0.30	
7	Guinia-Bisau	1.0		21	0.86	0.0
8	Kenya	25.3	214,760	1,162	0.85 3.17	0.0
10	Morocco Mauritius	25.9 1.1	820,800 106,930	6,725 4,037	9.72	3.6
11	Nigeria	105.3	342,290	9,019	0.33	0.0
iż	South Africa	39.7	3,659,860	40,000	9.22	1.0
13	Funisia	8.7	421,360	2,269	4.84	0.2
14	Canada]	28.8	16,470,880	1,326,390	57.19	46,0
15	U.S.A.	257.8	148,084,380	16,009,461	57.44	62.1
16	Mexico	90.0	7,620,880	385,341	8.47	4.2
17	Argentine	33.8	4,114,550	125,780	12.17	3.7
18	Bolivia	7.1	234,360	3,670	3.30	0.5
19	Brazil	156.5	10,686,570	180,215	6.83	1.1
20	Сиде	13.8	1,520,290	85,186	11.02	6.1
21	Costa Rica	3.3	364,120 552,400	4,533	11.03	1.3
22	Dominican Rep. FI Salvador	7.5 5.5	552,400 173,500	11,020 1,632	7.37 3.15	1.4 0.3
24	Ecuador Ecuador	11.0			5.44 5.44	0.8
25	Gualemala Ecuador	10.0	598,290 148,500	9,000 2,9 90	1.49	0.3
26	Jamaica	2.4	225,200	18,635	9.38	7.7
	Рагадиру	4.7	144,850	1,500	3.08	0.3
28	Penu	22.9	670,440	36,900	2.93	1.6
29	Puerio Rico	3.6	1,207,230	68,410	33.53	19.0
30	Trinidad and T	1.3	192,490	1,679	14.81	1.2
31	Urugay	3.1	530,000	4 069	17.10	1.3
32	Venezuela	20.9	2,032,850	182,600	9.97	8.7
33	Saudi Arabia	17.4	1,574,940	15,910	9.05	0.9
34	Australia	17.6	8,540,000	760,000	48.52	43.1
35	China	1,178.4	14,074,000	638,000	1.19	0.5
36	Kores	44.1	16,686,060	471,784	37.84	10.7
37 38	U.A.E. Indonesia	1.8 187.2	553,210	70,590	30.73 0.92	39.2 0.2
39	Israel	5.2	1,713,010 1,958,100	53,438 64,484	37.66	12.4
40	Japan	124,5	58,459,000	2,131,000	46.96	17,1
ii l	Jordan	4.1	288,110	3,462	7.03	0.3
42	Kuwait	1.8	357,900	60,100	19.88	33.3
43	Cao PDR	4.6	8,600	340	0.19	0.0
44	Malaysia	19.0	2,410,720	290,000	12.69	15.2
45	New Zealand	3.5	1,593,000	143,800	45.51	43.0
46	Oman	2.0	147,780	5,616	7 .39	2.8
47	Pakistan	122.8	1,604,770	16,000	1.31	0.1
48	Phillippine	64.8	847,540	101,738	1.31	1.5
49	Singapour	2.8	1,245,570	179,000	44.48	63.9
50	Sri Lanka	17.9	157,770	13,000		0.7
51	Thailand	58,1 31,3	2,184,890	435,000	3.76	7.5
52 53	Vict Nam Germany	71.3 80,7	260,000 36,899,780		0.36 45.72	0.0 21.9
54	Austria	7.9	3,579,240	1,769,962 220,976	45.72 45.31	27.9
	Belgium	10.0	4,395,700	66,929	43.96	6.6
56	Derumark	5.2	3,059,810	359,323	58.84	69.1
57	Spain	39.5	14,253,470	257,250	36.08	6.5
	Estonia	1.6	358,300	7,224	22.39	4.5
	Finland	5.1	2,760,660	489,174	54.13	95.9
	France	57.5	30,900,000	430,000	53.74	7.4
	Grecce	10.4	4,744,020	17,000	45.62	
	Hungary	10.2	1,497,580	45,712	14.68	4.4
	Ircland :	3.5	1,170,000	61,100	33.43	17.4
	Italy	57.1	24,176,000	1,207,000	42.34	21.1
	Nonvay	4.3	2,334,840	375,000	54.30	87.2
	Netherlands	15.3	7,630,000	216,000	49.87	14.1
67 68	Portugal U.K.	9.8	3,260,320	101,231	33.27 46.01	10.3
	U.A.	57.9	26,642,000	1,171,047	46.01	20.2
69	Sweden	8.7	5,920,000	774,500	68.05	89.0

Source: World Development Report 1995 (World Bank)
Source: HU Statistical Yearbook 1995

World Radio Paging Service

	-	The second secon				
No.	Country	Population	Telephone	Paging	Subscribers	Paging
			Subscribers	Telephone	Sub./100Pop.	Sub./1000Pop.
	Burundi	0.9	15,550	64	0.26	0.01
2	Egypt	56.4	2,374,790	5,700	4.21	0.10
8	Kenya	25.3	214,760	647	0.85	0.03
4	Mexico	0.06	7,620,880	110,000	8.47	1.22
S	Chile	-13.8	1,520,290	21,502	11.02	1.56
9	Dominican Rep.	7.5	552,400	7,031	7.37	76.0
7	Peru	22.9	670,440	2,780	2.93	0.12
8	Saudi Arabia	17.4	1,574,940	69,763	9.05	3.84
6	Indonesia	187.2	1,713,010	80,000	0.92	0,43
10	Kuwait	1.8	357,900	98,050	19.88	54.47
	Malaysia	19.0	2,410,720	109,500	12.69	5.76
12	Oman	2.0	147,780	21,856	68.7	10.93
13	Pakistan	122.8	1,604,770	5,000	1.31	0.04
14	Phillippine	64.8	847,540	134,160	1.31	2.07
15	Sri Lanka	17.9	157,770	4,230	0.88	0.24
16	Thailand	58.1	2,184,890	251,535	3.76	4.33
	7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		XX/ 2001	7 - T		

urce : World Development Report 1995 (World Bank)

ITU Statistical Yearbook 1995

hbaatar	Subbaatar District		The second secon		in 1995				
No. of			#	Telephone	the second second second		Old	New	1
Horoo Population	m Household	Admi. &	Resident	Waiter	R+W	Dernand	Site	Site	Remarks
		Business					Name	Name	
2,867	145	368	331	181	512	1,080	ATC-3	ATC-3	
,,	3,798 967	55	350	328	678	733	ATC-3	ATC-3	
6,9	6,483 1,622	153	527	583	1,110	1,263	ATC-3	ATC-3	
ω, S	,981 8,202	38	268	09	628	999	ATC-3	ATC-3	
4,2	4,253 1.103	147	335	186	521	999	ATC-36	ATC-6	
	3,884 973	169	386	27	413	582	ATC-3	ATC-3	
6,4	1,546	124	719	388	1.107	1,231	ATC-3	ATC-3	
11,17	71 1,895	662	85	612	269	1.359	ATC-3	ATC-3	
3,23	30 675	0	8	72	80	80	ATC-73	ATC-7	Ē
6,03	31 1,394	59	98	20	106	165	ATC-73	ATC-7	ż
3,602	658	92	83	100	183	275	ATC-73	ATC-7	5
4.294	1,037	2	'n	34	39	41	ATC-73	ATC-7	Ger
2,167	67 612	0	5	08	85	85	ATC-73	ATC-7	ţ
3,119	19 785	9	'n	100	105	111	ATC-73	ATC-7	કુ
5,901	1,565	C	62	213	275	278	ATC-73	ATC-7	Ger (Summer camp)
2.4	2,448 630	13	3	82	85	86	ATC-73	ATC-7	Ger
73 633	33 24 409	7 001	3 558	390 %	VC9 9	3163		29/25	

Subbaatar District: Business Demand																
No. of	1995	9661	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2002	2010
Horoo			6 1 1 1													
1	837	882	626	186	1,038	1,100	1,166	1,235	1,310	1,389	1,472	1,561	1,654	1,753	1,858	1,970
(1)	8	85	06	95	100	106	113	120	127	134	143	151	160	170	180	191
<i>(</i>)	225	237	250	282	279	296	314	333	353	374	396	420	445	472	200	531
4	- 35	59	62	99	69	74	78	83	88	93	86	104	111	117	124	132
ν.	217	228	24]	254	269	285	302	320	339	359	381	404	428	454	481	510
\$	249	292	277	292	309	327	347	368	390	413	438	\$	492	521	553	286
-1	183	192	203	214	227	240	254	270	586	303	321	341	361	383	406	430
∞	975	1,027	1,083	1.143	1,209	1,282	1,359	1.440	1,526	1,619	1,715	1,819	1.928	2,043	2,165	2,295
٥	0	0	0	0	0	0	O	0	0	0	0	0	0	O	0	
01	87	92	76	102	108	114	121	128	=======================================	144	153	162	172	182	193	205
	136	143	151	159	168	178	189	200	212	225	238	253	268	284	301	319
23	m	<u>ب</u>	. m	60	4	4	4	4	· · ·	· vo	\$.	9	9	7	•
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	6	10	01	- F	12	12	13	14	15	16	91	17	61	20	22
15	4	\$	\$	ν,	\$	9	9	7	7	7	90	60	6	σ.	10	10
9	19	8	22	23	24	25	27	28	30	32	34	36	38	40	43	- 45
Total	3.081	3 244	3.422	3.610	3.820	4.049	4.292	4.549	4 823	5.112	2.418	5.744	680.9	6.453	8	7.252

No. of 1995 1996 1997 1998 1 1 673 723 755 807 2 892 957 1,000 1,068 3 1,460 1,568 1,637 1,751 4 826 887 926 990 5 682 736 768 822 6 543 583 609 651 7 1,456 1,563 1,099 9 105 113 118 126 10 139 150 156 167 11 241 258 270 289 12 51 55 58 62 13 112 125 134 14 138 148 155 166 14 138 148 155 166 14 138 148 155 166 15 362 388 406 434	807 853 1,069 1,130 1,751 1,849 990 1,046 822 868	2000 2001 905 962 1,198 1,273 1,961 2,085 1,109 1,179 920 979 730 776	01 2002 962 1,026 ,085 2,225 ,179 1,259 979 1,045	1,087	2004	2005	2006	2007	2008	2009	2010
673 723 755 892 957 1,000 1,460 1,568 1,637 826 887 926 685 736 609 1,456 1,563 1,632 916 984 1,028 105 113 118 139 1,50 1,56 241 258 270 51 55 58 362 388 406	pri pri pri			1,087	·			_			
673 723 755 892 957 1,000 1,460 1,568 1,637 826 887 926 685 736 609 543 583 609 1,456 1,563 1,632 916 984 1,028 105 113 118 139 150 156 51 55 58 51 55 58 138 148 155 138 148 155 362 388 406		1 2 1		1,087			-				
892 957 1,000 1,460 1,568 1,637 826 887 926 685 736 768 543 583 609 1,456 1,563 1,632 916 984 1,028 105 113 118 139 1,50 156 241 258 270 51 55 58 112 123 148 138 148 155 362 388 406	prof. prof.			1,440	1,156	1,218	1,289	1,364	44,1	1,525	1,579
1,460 1,568 1,637 1, 826 887 926 685 736 768 543 583 609 1,456 1,563 1, 105 113 113 139 150 156 241 258 270 51 55 58 112 123 138 148 155 362 388 406		u - a			1,530	1,614	1.707	1,806	1,912	2,020	2,091
826 887 926 685 736 768 543 583 609 1,456 1,563 1,632 1, 916 984 1,028 1, 105 113 118 139 150 156 51 55 58 112 120 125 138 148 155 362 388 406		- 3		2,357	2,505	2,642	2,795	2.958	3,131	3,307	3,423
685 736 768 543 583 609 1,456 1,563 1,632 1, 105 113 118 1, 139 150 156 241 258 270 51 55 58 112 125 125 138 148 155 362 388 406		Α.		1,333	1,418	1,495	1,582	1,673	1,771	1.871	1,936
543 583 609 1,456 1,563 1,632 1, 916 984 1,028 1, 105 113 118 1, 241 258 270 51 55 58 112 120 125 138 148 155 362 388 406	· · · · · · · · · · · · · · · · · · ·			1,106	1,176	1,240	1,312	1,388	1,470	1,552	1,607
1,456 1,563 1,632 1, 916 984 1,028 1, 105 113 118 139 150 156 51 55 58 112 120 125 138 148 155 362 388				877	932	983	1,040	1,100	1,165	1,230	1,274
916 984 1,028 1, 105 113 118 139 150 156 241 258 270 51 55 58 112 120 125 138 148 155 362 388	1,746 1,844			2,350	2,499	2,634	2,788	2,950	3,123	3,298	3,414
105 113 118 139 150 156 241 258 270 51 55 58 112 120 125 138 148 155 362 388		1,231	309 1,397	1,480	1,573	1,659	1,755	1,857	1,966	2,077	2,149
139 150 156 241 258 270 51 55 58 112 120 125 138 148 155 362 388 406	126 133	141	150 160	170	181	190	201	213	226	238	247
241 258 270 51 55 58 112 120 125 138 148 155 362 388 406	167 177	187	199 213	225	239	252	267	282	299	316	327
51 55 58 112 120 125 1 138 148 155 1 362 388 406 4	289 305	323 3	344 367	389	413	436	461	488	516	545	\$
112 120 125 138 148 155 362 388 406	62 65	69	73 78	83	88	93	86	104	110	116	120
138 148 155 362 388 406	134 142	150	160 170	180	192	202	214	226	240	253	262
362 388 406	166 175	186	197 211	223	237	250	26.	280	296	313	324
	434 458	486 5	516 551	584	621	654	663	733	776	819	848
16 112 120 125 134	134 - 142	150	160 170	180	192	202	214	226	240	253	262
Total 8,711 9,353 9,768 10,447	10.447 11.036	11,702 12,441	41 13.278	14.064	14.952	15.764	16,680	17.648	18,685	19,733	20.427

Subbaatar		DISTRICT: DESIRESS +	CONTRO	~~~~~~~~~~~	ter sometimes		-									
No. of	1995	1996	1661	8661	1999	2000	2001	2002	2003	2004	2002	2006	2007	2008	5005	2010
Force												:	:			1
	1,510	1,605	1,684	1,788	1,891	2,005	2,128	2,261	2,397	2,545	2,690	2,850	3,018	3,197	3,383	3,549
71	973	1,042	1,090	1,18	1,230	1,304	1,386	1,479	1,567	1,664	1,757	1,858	1.966	2,082	2,200	2,282
W	1,685	1,805	1,887	2,015	2,128	2,257	2,399	2,558	2,710	2,879	3,038	3,215	3,403	3,603	3,807	3,954
4	882	946	886	1.056	1,115	1,183	1,257	1.342	1,421	1,511	1,593	1,686	1,784	1,888	1,995	2,068
ν	902	96	1,009	1.076	1.137	1,205	1,281	1,365	1,445	1,535	1,621	1,716	1,816	1.924	2.033	2,117
9	792	ž	988	943	266	1,057	1,123	1,196	1,267	1,345	1,421	1.504	1,592	1,686	1,783	1,860
^	1,639	1,755	1,835	1,960	2,071	2,196	2,333	2,489	2,636	2,802	2,955	3,129	3,311	3,506	3,704	3.84 448.
∞	1,891	2,011	2,111	2,242	2,370	2,513	2.668	2,837	3,006	3,192	3,374	3,574	3,785	4,009	4,242	4,444
φ,	105	113	118	126	133	141	150	160	170	181	061	201	213	226	238	22.
2	226	242	253	269	285	301	320	341	361	383	405	429	42.4	481	200	532
=	377	401	421	14 8	473	105	533	567	109	638	674	714	756	800	846	883
2	*	88	3	9	69	73	77	22	88	93	86	103	110	116	123	127
	112	120	125	134	142	150	160	170	180	192	202	214	226	240	253	262
4	147	157	165	176	186	861	209	224	237	252	266	280	297	315	333	345
5.	366	393	411	439	463	492	522	558	591	628	299	101	742	785	828	828
16	131	140	146	156	166	175	187	198	210	224	236	250	264	280	296	307
Total	11.792	12.597	- 13.190	14.057	14.856	15751	16 773	268 61	18 887	20.063	31.6	17.174	33 727	95 1 20	177 76	077.70

	.	***********			cyriges			·	10-14-1	osyn:	odnikasi.	mer e	-Service	elleriat mi	an de la	essentia d	~ ~~~		e and ra	a fiz wie	4	
		Remarks				÷				Ger	ğ	ğ		35	Ger	P. C.	Ger	Ç	ğ	Set.	Ger	
	New	Site	Name	ATC-3	ATC-6	ATC-3	ATC-3	ATC-3	ATC-3	ATC-6	ATC-6	ATC-7	ATC-7	ATC-7	ATC-7	ATC-7	ATC-7	ATC-7	ATC-7	ATC-7	ATC-7	
	PIO	Site	Name	ATC-3	ATC-36	ATC-3	ATC-3	ATC-3	ATC-3	ATC-36	ATC-36	ATC-73	ATC-73	ATC-73	ATC-73	ATC-73	ATC-73	ATC-73	ATC-73	ATC-73	ATC-73	
	e activat	Demand		1,197	698	814	1,377	899	538	176	158	149	89	115	257	140	151	336	118	322	290	7,743
in 1993		R+W		629	481	718	445	563	347	175	157	139	59	95	252	136	148	333	117	321	289	5,404
• • • •	Telephone	Waiter	-	129	120	173	20	303	98	125	117	137	51	87	252	136	136	323	112	316	287	2,940
		Resident		200	361	545	395	760	261	50	40	7	•	∞	0	0	12	10	5	50	2	2,464
		Adm. &	Business	268	388	96	932	105	161	, 4	For	10	6	20	ν.	4	m	m	-	-	1.	2.339
strict		Household		881	066	1,259	1,357	1,222	168	804	703	922	1,022	089	1,421	886	864	1,268	1,385	1,480	1,321	19,458
Chingeltei District		Population		3,312	3,551	4,146	6,312	4,965	3,825	3,434	2,953	3,908	5,445	2,905	6,143	4,839	3,804	5,059	6,788	5,070	5.191	81,650
Chi	No. of	Horoo			7	(1)	4	'n	9	-	∞	0	01	11	2	33	4	15	16	17	18	Total

Chinge	Chingeltei District: Business Demand	rrict: Br	siness D	emand					American Colonia			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
No. of	\$661	9661	1661	8661	1999	2000	2001	2002	2003	2004	2005	2006	2002	2008	2009	2010
Horoo																****
b	086	1,033	1,090	1,150	1,217	1,290	1,367	1,448	1,535	1,628	1,726	1,830	1,940	2,055	2,178	2,310
(1	670	706	744	786	831	881	934	686	1.049	1,112	1,179	1,250	1,325	1,404	1,488	1,578
8	166	175	184	194	206	218	231	245	260	275	292	309	328	347	368	390
4	1.609	1,696	1,788	1,887	1,997	2,117	2,244	2,376	2,520	2,671	2,833	3,002	3,182	3,372	3,574	3,790
\$	181	191	201	213	ß	238	253	268	282	301	319	338	359	380	403	427
v	330	347	366	387	409	434	7460	487	918	547	280	615	652	169	732	11
i-	61	7	7	(1	N	17	74	8	<u>`m</u>	m		n	es.	4	4	4
20	(1	4	61	ci	71	Ċł.	(1	۲,	tr.	£.	60		r	4	4	4
٥	17	18	61	8	77	R	24	Ŋ	27		30	32	4	36	38	41
	16	91	17	18	19	ន	8	23	42	97	17	53	31	33	35	37
H	35	36	38	40	43	45	48	51	7.	57	61	64	89.	72.	11	80
27	٥	6	10	10	7	11	12	13	4.	14	15	16	17	82	19	20
13		7	30	90	6	6	10	0.1	11	11	12	13	14	4	15	16
4	v	\$	9	9	9	7	7	∞	∞	6	٨	01	10	11	2	2
52	S	V i	9	9	9	7	7	∞	80	6	6	10	10	Π	12	12
91	R	. (A)	(1	C1	ন	ત	a	6	<u>ෆ</u>	1°).	rs.	8	<u>۳</u>	4	4	4
17.	ĊI		7	74	RI	RI	7	Ε,	3	m	۴.	m	٣	च	₩	4
18	63	2	. 7	CI	2	2	2	3	3	3	3	3	3	4	4	P
Total	4,040	4.254	4.487	4.735	5.010	5,310	5.629	5.966	6,325	6,704	7.107	7.533	7.985	8.464	126'8	9.511

9	2,019	544	2.304	1,428	1,807	1,114	562	504	446	189	305	808	436	475	690	375	.030	928	
2010						-		-		•		4	и			-4			
2009	1,906	1,457	2,175	1,348	1,706	1,051	530	476	421	179	288	764	412	448	1,009	354	973	876	
2008	1,790	1,369	2,043	1,266	1,602	886	498	74	396	168	270	717	387	423	948	333	914	822	
2007	1,718	1,313	1,961	1,215	1,537	947	478	439	380	191	259	889	371	404	606	319	876	789	-
5006	1,610	1,23,1	1,837	1,139	144	888	844	402	356	151	243	£	348	379	852	86	22	740	
2005	1,508	1,154	1,722	1,067	1,350	832	420	377	333	141	ដ	604	326	355	799	281	770	693	
2004	1,455	1,112	1,661	1.029	1,302	803	405	363	321	136	220	583	315	342	12	271	742	899	
2003	1,357	1,037	1,549	096	1,214	748	377	339	300	127	205	544	293	319	718	252	269	623	-
2002	1,269	971	1,449	868	1,136	700	353	317	280	119	192	\$00	274	299	672	236	848	583	
2001	1,210	925	1,381	828	1,083	899	. 337	302	267	113	183	485	262	285	641	225	618	556	
2000	1,128	863	1.288	862	1,010	622	314	282	249	901	170	452	244	265	597	210	576	518	
1999	1,084	828	1,237	366	970	865	301	270	239	102	164	434	84	255	573	201	553	498	
1998	1.016	111	1,160	719	606	260	283	254	222	8	153	407	220	239	538	189	519	467	
1997	896	740	1,105	685	998	534	269	242	214	75	146	388	209	228	\$13	180	464	445	
199%	106	689	1,029	637	807	497	ភ	\$23	8.	\$\$	136	361	195	212	477	168	460	414	
1995	778	3	48	597	756	466	335	211	187	79	128	338	183	188	744	157	431	388	
No. of Horoo	1	73	t,	4	٧.	v	7	20	<u>م</u>	2	<u></u>	2	: E1	4	15	36	1.	18	-

Chingcirc District Dusiness + residen																
No. of Horoo	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2002	2006	2007	2008	5005	2010
-	1,824	1,934	2,058	2,166	2,301	2.418	2,577	2,717	2,892	3,083	3,234	3,440	3,658	3,845	4,084	4,329
61	1,316	1,395	1,484	1,563	1,659	1,74	1,859	1,960	2,086	2,224	2,333	2,481	2,638	2,773	2,945	3,122
· (r)	1,130	1,204	1,289	1,354	1,443	1,506	1,612	1,694	1,809	1,936	2,014	2,146	2,289	2,390	2,543	2,694
4	2,206	2,333	2,473	2,606	2,763	2,915	3,100	3,274	3,480	3,700	3,900	4,141	4,397	4,638	4,922	5,218
v	937	866	1,067	1,122	1,195	1.248	1,336	1,404	1,498	1,603	1,669	1,779	1,896	1,982	2,109	2,234
ø	796	844	006	947	1,007	1,056	1,128	1,187	1,264	1,350	1,412	1,503	1,599	1,679	1,783	1,891
<u>-</u>	23.7	253	271	285	303	316	339	356	380	408	423	451	481	202	534	995
20	213	727	244	256	272	284	304	320	342	366	380	405	432	451	480	\$08
Ó	204	217	233	245	260	272	291	305	327	350	363	388	414	432	459	487
91	\$6	101	108	113	121	126	135	142	151	162	168	180	192	201	214	226
Ħ	163	172	184	193	207	215	231	243	259	277	289	307	327	342	365	386
12	347	370	398	417	44	463	497	23	828	297	619	199	705	735	783	829
13	190	202	217	228	243	253	272	485	304	326	338	361	385	101	427	452
4.	204	217	234	245	261	272	292		327	351	364	389	414	432	460	487
51	452	482	615 519	\$45	579	604	648	089	726	779	808	862	616	656	1,021	1,081
91	159	170	182	191	203	212	727	239	255	274	284	302	322	337	358	379
17	433	462	496	521	555	578.	620	159	\$69	745	773	825	879	918	716	1,034
18	390	416	447	469	\$00	520	558	586	979	129	969	743	792	826	880	932
Tota	11 206	11 997	708.61	377 21	. 1.7.7	20031	****									-

5a	Bayangol District	trict	**			in 1993				
No. of					Telephone			Old	New	
Horoo	Population	Household	Admin. &	Resident	Waiter	R+W	Demand	Site	Site	Remarks
			Busi.					Name	Name	
-0.254	7,541	1,763	71	121	001	22.1	292	ATC-36	ATC-6	
ţ~,	3,835	902	29	89	76	144	173	ATC-36	ATC-6	
	7,308	1,686	130	0	0	Ō	130	ATC-36	ATC-6	
	7,882	1,858	156	295	0	295	451	ATC-36	ATC-6	
	8,040	1,670	232	549	735	1,284	1,516	ATC-33	ATC-2	
- 4 -	5,030	1,136	0	592	427	969	969	ATC-36	ATC-6	
	5,335	1.348	17	459	448	907	924	ATC-33	ATC-2	
90	7,467	1,988	30	684	895	1,253	1,283	ATC-36	ATC-6	
	4,744	1,142	0	20	163	183	183	ATC-33	ATC-2	Ger / Apartment
~~~	4,192	996	0	59	73	132	132	ATC-36	ATC-6	Ger / Apartment
	3,651	1.024	31	141	80	221	252	ATC-36	ATC-6	B
~	3,828	056	0	09	105	165	165	ATC-36	ATC-6	S.
~~	4,977	1,223	55	260	195	755	810	ATC-36	ATC-6	
<b>4</b>	5,384	1,365	. 50	449	331	975	1,025	ATC-36	ATC-6	
	5,864	1,426	93	640	365	1,005	1,098	ATC-36	ATC-6	
	4,195	1,030	25	8	71	101	126	ATC-36	ATC-6	Gr
	4,859	1,173	65	318	341	659	724	ATC-36	ATC-6	Ger / Apartment
38	6,685	1,473	53	695	589	1,284	1,337	ATC-36	ATC-6	
19	6,239	1,959	3.1	604	502	1.106	1,137	ATC-36	ATC-6	the second of the second of
Total	107,056	26.082	1.068	6.216	5.170	11.386	12,454			

Bayan	Bayangol District: Business Demand	ict : Bu	iness De	cmand												
	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Horoo	:													.:		
P-4	73	77	81	98	8	96	102	108	114	121	129	136	144	153	162	172
(4	30	31	33	35	37	39	42	44	47	S	52	56	89	62	99	2
m	134	141	149	157	166	176	186	197	209	222	235	249	264	280	297	315
v	160	691	179	188	199	211	224	237	251	266	282	289	317	336	356	378
.Vì	339	251	266	280	297	312	333	352	374	396	420	445	471	200	530	\$62
9	0	0	0	0	٥	0	0	0	0	0	0	0	0	0	0	O
٢	17	18	19	7.	22	8	24	35	27	29	31	33	35	37	39	4
∞	31	33	34	36	38	4	. 4	94	48	15	54	85		65	69	ĸ
6	0	0	0	0	0	0	0	0	0	· <del>                                     </del>	0		•	0	0	O.
0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0
	33	34	35	37	39	42	4	47	0,	S	\$6	\$	3	. 67	17	7.5
ŭ	0		0	0	0	0	0 :	0 :	0	0	0	0	0	0	0	Ö
13	57	0,9	63	99	2	47	8	8	68	94	100	106	112	119	126	133
14	51	22	57	9	64	89	72	76	8	8\$	91	%	102	108	114	121
15	96	101	106	112	118	126	133	141	150	159	168	8/1		200	212	225
16	26	27	23	30	32	34	36	38	4	43	45	84	\$1	54	27	19
2	129	20,	74	79	83	00 00	88	8	105	111	118	125	132	140	149	157
80	54	57	19	64	89	72	7.5	8.	\$3	8	%	102		114	121	128
ŝ	32	34	35	37	39	42	44	47	\$	53	. 56	65	63	67	71	75
Total	1.099	1.157	1.221	1.288	1.362	1.444	1.531	1.623	1,720	1.823	1.933	2.049	2.171	2,302	2,440	2.586
						ļ.		<b> </b>								

Bayan	gol Disti	rict : Re	Bayangol District: Residential Demand	Demand				2								
No. of	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	5005	2010
Horoo																
•-<	257	273	82	310	338	347	369	393	017	435	459	485	514	¥	274	603
ci.	167	178	189	202	213	226	240	256	267	284	299	316	335	354	374	393
m	٥	0	0	0	0	٥	0	0	0	0	0	0	ò	0	0	٥
4	343	364	388	414	437	463	492	\$2.5	547	581	612	648	685	726	266	805
νı	1,493	1,586	1,687	1,803	1,903	2,017	2,143	2,286	2.380	2,530	2,666	2,821	2,984	3,159	3,336	3,506
Ý	809	098	914	21.6	1,032	1,093	1,162	1,239	1,230	1,371	1,445	1.529	1,617	1,712	1,808	1,900
-	1,054	1,120	1,192	1,274	46.1	1,425	1,514	1.614	1,681	1,787	1,883	1,992	2,108	2,231	2,356	2,476
00	1,457	1,547	1,646	1,759	1,857	1,968	2,091	2.230	2,322	2,467	2,602	2,752	2,912	3,083	3,255	3,421
΄ Φ	213	226	240	257	271	287	305	326	339	361	380	402	425	450	475	8
20	153	163	173	185	196	207	220	235	245	260	274	280	307	325	343	360
77	257	273	280	310	328	347	369	393	410	435	459	485	514	4	574	603
2	192	204	217	232	245	259	275	294	306	325	343	362	383	406	429	451
13	878	932	8	1.060	1,119	1,186	1,260	1,344	1,399	1,487	1,568	1,659	1,754	1,857	1,962	2,061
4	1,134	1,204	1,281	1,369	1,445	1,532	1,627	1.735	1.807	1,921	2.024	2,142	2,266		2,533	2,662
15	1,168	1,241	1,320	1,411	1,489	1.579	1,677	1,789	1,862	1,980	2.087	2,208	2,335	2,473	2,611	2,74
91	117	125	133	142	8	159	691	180	187	861	210	22	23.5	248	262	276
17	766	814	998	925	277	1,035	1,100	1.173	1,22,1	1,298	1,368	1,448	1,531	1,621	1,712	1,799
3.8	1,493	1.586	1.687	1.803	1,903	2,017	2,143	2,285	2,380	2,530	2,666	2,821	2,984	3,159	3.336	3,506
61	1,286	1.366	1,453	1,553	1,639	1.737	1.846	1.969	2.050	2.179	2,296	2,430	2,570	2,721	2.873	3.020
Tota	13,237	14.062	14.958	15.986	16.876	17.884	19.002	20.266	21.103	22,430	23.641	25.012	26.459	28.012	29.579	31.086

Bayan	Bayangol District: Business + Resident	ict : Bu	siness + )	Residenti	ial Demand	ρ										
No. of	1995	1996	2661	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Horoo	:					3.						: -	:			
P-6	330	350	128	396	418	443	471	501	524	956	588	621	859	269	736	77.5
(1)	197	209	222	237	250	265	282	300	314	334	351	372	394	416	440	463
r)	134	141	149	157	166	176	186	197	209	222	235	249	3,	280	297	315
4	503	533	267	602	636	674	716	762	798	847	894	947	1,002	1,062	1,122	1,183
<b>V</b>	1,732	1,837	1,953	2,083	2,200	2,329	2,476	2,638	2,754	2,926	3,086	3,266	3,455	3,659	3,866	4,068
9	808	860	914	77.6	1,032	1,093	1,162	1,239	1.290	1.371	1,445	1,529	1,617	1,712	1 808	1,900
(-	1.071	1,138	1,211	1,295	1,366	1,448	1.538	1,640	1,708	1.816	1,914	2,025	2,143	2,268	2,395	2,517
∞	1,488	1.580	1,680	1,795	1,895	2,009	2,134	2,276	2,370	2,518	2,656	2,810	2,973	3,148	3,324	3,494
٥	213	226	240	257	Ē	287	305	326	339	361	380	402	425	450	475	200
01	153	163	173	185	138	207	220	23.5	245	260	274	290	307	325	343	360
	289	307	325	347	367	389	413	440	460	488	515	442	577	611	843	678
Ci	192	204	217	232	245	259	275	294	306	325	343	362	383	406	429	451
13	935	992	1,055	1,126	1,189	1,260	. 1,339	1,428	1,488	1,581	1,668	1,765	1.866	1,976	2,088	2,194
4.	1,185	1,258	1,338	1 429	1,509	1,600	1,699	1,811	1,888	2,006	2,115	2,238	2,368	2,507	2,647	2,783
21	1,264	1,342	1,426	1.523	1.607	1,705	1.810	1,930	2.012	2.139	2,255	2,386	2,524	2,673	2,823	2.969
16	143	152	162	172	182	193	205	218	227	- 242	255	270	286	302	319	337
<u></u>	833	884	940	1,004	1,060	1.123	1,193	1,272	1,326	1,409	1,486	1,573	1,663	1,761	1,861	1,956
8	1,547	1,643	1.748	1.867	1.971	2,089	2,219	2,366	2,465	2,620	2,762	2,923	3,092	3,273	3,457	3.634
61	1.318	1,400	1,488	1.590	1.678	1.779	1.890	2,016	2,100	2.232	2,352	2,489	2,633	2.788	2,944	3.095
Total	14,336	15.219	16.179	17.274	18.238	19.328	20.533	21.889	22.823	24.253	25.574	27.061	28,630	30,314	32.019	33.672

e constru	,		otione	jarcanas.		naga (Brita)	entimieskinge	of Library	- 31.04.00	·ra-saw	· Drykagyyd	-salectores	entramana	fewares:	-	144 TO 154	نالا عاوم	XX LOS	<b></b>				20/14/20 20/14/20	geography .	
		Remarks		Ger & (Inth. Chirdren)	Ger	સું	Ger / Apartment	Ger		S.	P.S.	Get	Ger	Ger								Š	Jargalans (Partuzes, Survey Data)		
	New	Site	Name	ATC-2	ATC-2	ATC-2	ATC-2	ATC-2	ATC-2	ATC-2	ATC-21	ATC-21	ATC-21	ATC-21	ATC-2	ATC-2	ATC-2	ATC-2	ATC-2	ATC-2	ATC-2	ATC-2	Ą	ATC-2	
	Old	Site	Name	ATC-33	ATC-33	ATC-33	ATC-33	ATC-33	ATC-33	ATC-33	ATC-36	ATC-36	ATC-36	ATC-36	ATC-33	ATC-33	ATC-33	ATC-33	ATC-33	ATC-33	ATC-33	ATC-33	JA	ATC-33	
	7228	Demand		142	113	175	135	155	27	103	137	321	246	133	810	-982	833	1,511	968	616	1,232	496	25	559	9.950
in 1993		R+W	<del>Make</del>	117	1.13	169	09	7	27	7	130	315	246	103	798	971	823	1,507	871	914	1,077	460	20	106	9,005
	Telephone	Waiter		26	93	142	45	99	17	9	110	135	192	100	334	433	356	440	390	356	538	315	0	45	4,264
		Resident		20	20	27	15	ν.	01	17	20	180	54	33	464	538	467	1,067	481	558	539	145	20	- 61	4,741
		Admin. &	Busi.	25	0	9	75	8	0	26	7	9	0	0	12	11	10	.4	25	κ.	155	36	.vo.	453	945
an District		Household		838	813	829	745	935	1,215	776	666	1,327	1,128	795	863	1,625	1,184	1,409	1,284	1,375	1,951	1,298	1,300	1.343	24,032
Songinohairhan		Population		4,006	4,328	4,974	3,561	4,548	5,598	3,780	4,484	6,076	4,980	3,403	4,295	7,843	5,261	6,649	5,435	6,350	8,242	5,873	6,400	6,408	112,494
Sor	No. of	Horoo		r-4	7	(1)	4	, V	9	<i>(</i> ~	00	Q	10		7	13	サ	5.7	16	7.7	<b>∞</b>	19	20	21.	Total

Songine	hairhan	District	: Busin	Songinohairhan District: Business Demand	pun					:						
No. o.	1995	1996	1997	1998	1999	2000	2001	2002	2003	2007	2002	2006	2007	2008	5005	2010
Horoo				·												+ in an
	40	42	44	47	- 20	53	\$6	65	63	99	70	75	79	84	68	56
n	0	0	0	0	. 0	0	0	0	6	0	0	0	0	0	٥	Ö
ĸ	10	2	=	11	12	13	113	14	1.5	16	17	18	19	20	21	23
4	120	127	133	141	149	158	167	177	188	199	211	224	237	252	267	283
ν,	134	142	150	158	167	177	187	199	210	223	237	251	266	282	299	317
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	٥	Ō
<b>.</b>	42	4	46	49	52	55	58	. 61	65	69	73	78	82	87	92	86
· 66	Ħ	12	12	13	14	15	16	17	18	19	20	21	22	23	25	56
٥	10	10	, <b>4</b> 	Ħ	12	13	13	14	15	16	17	82	19	50	21	23
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
r4 ⊷1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	O
Ŋ	61	20	77	23	71	প্ল	27	28	30	32	34	36	38	40	43	45
£1	81	6.1	20	21	23	23	23	28	28	29	31	33	. 35	37	39	41
4	16	17	18	19	20	21	22	24	25	27	28	30	32	34	36	38
. 15	9	<b>*</b>	7	∞.	∞ .	60	۵	65	0.1	# :	11	12	13	13	4	15
9	40	42	7	47	80	53	\$6	59	63	99	70	75	- 79	28	68	8
12	∞	∞.	6	6	10	ដ		12	13	13	4	15	16	17	81	6
80	248	261	276	291	307	326	346	367	388	412	437	462	490	520	551	284
61	28	19	49	89	71	76	80	\$8	96	96	101	107	112	121	128	136
20	∞	∞	δ.	6	10	1	11	12	13	13	4	15	16	17	18	19
23	725	764	806	849	868	256	1.011	1.072	1,135	1,204	1.277	1.351	1.434	1.520	1.611	1.707
Total	1.513	1.594	1.681	1 774	1,876	1.990	2,108	2,235	2,369	2.511	2,662	2,821	2,991	3.171	3,361	3.562

Songin	Songinohairhan		District: Residential Demand	ential De	mand			:								On that which
No. ox	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Horoo																
-	113	120	129	136	145	151	162	170	182	190	203	217	226	242	251	267
71	109	116	125	131	140	146	157	<u>3</u>	176	3	961	210	218	233	243	258
60	163	173	981	196	209	218	234	246	263	275	293	314	326	ž	363	386
4	58	61	99	69	74	77	83	87	93	86	18	111	116	124	129	137
۷.	69	. 73	78	\$2	88	92	86	103	111	116	123	132	137	147	153	162
۷	58	28	8	31	33	35	37	39	4	4	47	20	52	98	28	62
<b>I</b>	74	64	85	&	86	66	107	112	120	125	134	143	149	159	165	176
*	126	133	143	121	161	168	180	189	202	212	226	241	251	569	279	297
٨	304	323	348	365	390	406	437	458	491	513	546	582	809	651	719	719
02	238	252	271	285	305	317	<u>¥</u>	358	383	400	427	456	475	808	529	195
=	128	136	147	2	165	171	32	193	207	216	231	247	257	275	286	303
12	77.1	818	881	924	886	1,029	1,106	1,160	1,243	1,299	1,384	1,480	1,541	1,649	1,715	1,820
13	826	995	1,072	1,125	1,202	1,252	1,346	1,412	1,512	1,581	1,685	1.801	1,876	2,006	2,087	2,215
14	795	843	806	953	1,019	1,061	1717	1,197	1,282	1,340	1,428	1,527	1,590	1,701	1,768	1,877
23	1.456	1,544	1,663	1,746	1,866	1,942	2,089	2,191	2,347	2,453	2,615	2,796	2,911	3,114	3,238	3,438
16	841	863	198	1,009	1.078	1,123	1.207	1,266	1,356	1,418	1,511	1,616	1,683	1,800	1,872	1,987
17	883	937	1,009	1,059	1,132	1.178	1.267	1,329	1,423	1,488	1,586	1.696	1.766	1,889	1,964	2,085
18	1,041	1,104	1,189	1,248	1,333	1.388	1.493	1,566	1,677	1,753	1,869	1,998	2,080	2,225	2,314	2,457
61	4	471	208	533	\$69	593	638	699	716	749	798	853	688	951	886	1.049
20	19	8	8	23	25	26	28	53	31	33	35	37	39	4	43	46
21	102	109	117	123	131	137	147	154	165	173	184	197	205	219	228	242
Total	8.698	9.228	9,938	10,432	11,148	11,609	12.482	13.092	14.022	14.660	15.625	16.706	17.395	18.608	19.350	20.544

												nace today								-		e in	
2010		361	258	409	420	479	62	274	323	742	561	303	1,865	2,256	1,915	3,453	2,081	2,104	3,041	1,185	65	1.949	70.00
2009		340	243	384	396	452	8	257	304	869	529	286	1,758	2,126	1,804	3,252	196'1	1.982	2,865	1,116	19	1,839	i
2003		326	233	369	376	429	99	246	292	671	208	275	1.689	2,043	1,735	3,127	1.884	3.906	2.745	1,072	\$3	1,739	
2007	:	305	218	345	353	403	52	231	273	627	475	257	1.579	1,911	1,622	2,924	1,762	1,782	2.570	1,003	55	1.639	7
2006		292	210	332	335	383	80	221	292	602	456	247	1,516	1,834	1,557	2.808	1,691	1,711	2,460	096	\$2	1.548	
2005		273	196	310	315	360	47	207	246	563	427	231	1,418	1,716	1,456	2,626	1,581	1,600	2,306	668	67	1,461	
2004		256	<u>3</u>	291	297	339	4	194	231	\$29	400	216	1,331	1,610	1,367	2,464	1,484	1,501	2,165	845	46	1.377	-
2003		245	176	278	781	321	42	185	220	909	383	207	1.273	1,540	1,307	2.357	1,419	1,436	2,065	908	3	1.300	
2002		622	164	260	264	302	39	173	206	472	358	193	1.188	1,438	1,22,1	2,200	1,325	1,341	1,933	754	. 41	1.226	
2001		218	157	247	250	285	37	165	196	450	341	25	1,133	1,371	1,163	2,098	1,263	1.278	1,839	718	39	1.158	
L	- <u>:</u> -:	204	146	231	235	569	35	154	183	419	317	171	1,054	1,275	1,082	1.950	1,176	1,189	1,714	699	37	1.089	
1999 2000	-	\$61	140	221	223	255	33	147	175	402	305	165	1,012	1,224	1,039	1,874	1,128	1,142	1.640	040	35	1:029	-
∞		183	131	207	210	240	31	138	3	376	285	154	947	1,146	972	1,754	1,056	1,068	1,539	601	32	972	-
1 000		173	. 125	197	861	228	30	131	155	359	271	147	206	1.092	926	1.670	1,005	1,018	1,465	572	31	923	
961 1997 199	<del></del> -	162	116	183	188	215	78	123	145	333	252	136	838	1.014	860	1,551	935	945	1,365	532	887	873	
	<u> </u>	153	109	173	178	203	79	116	137	314	238	128	200	956	811	1,462	188	891	1,289	202	27	827	
No of 1995	<del></del>		~~	<i>ب</i>	4	νn:	· •	۲	∞	· 6	10		22	3	4	- 51	91	1.7	82	- 61	្ន	21	

6	-									
53	bayanzurn U	District			χ .	in 1993				
No. of					Telephone			Old	New	
Horoo	Population	Household	Admin, &	Resident	Waiter	R+W	Demand	Site	Site	Remarks
			Busi.			30-ma		Name	Name	
	4,645	061,1	209	267	384	156	1,460	ATC-5	ATC-5	
7	5,028	1,232	59	75	120	195	254	ATC-5	ATC-5	ż
(1)	6,261	1,430	165	737	341	1.078	1,243	ATC-5	ATC-5	
4	999'9	1,569	141	462	465	927		ATC-5	ATC-5	
Ś	5,170	1,354	420	234	243	477	897	ATC-5	ATC-5	
9	860'9	1,804	197	261	326	587		ATC-5	ATC-5	Ger / Apartment
7	5,864	1,431	18	333	610	943	196	ATC-5	ATC-5	
∞	4,972	1,015	102	72	. 71	143	245	ATC-5	ATC-5	Ger / Apartment
ο.	4,510	1,067	4	89	160	228	232	ATC-5	ATC-51	5
10	5,311	1,392	92	09	8	141	233	ATC-5	ATC-52	Ger / Apartment
F-4	3,044	657	2	45	0	45	20	HO	H	Ger (Honhor)
12	4,572	1,033	0	20	85	105	105	ATC-5	ATC-52	Ger
13	2,504	581	0	∞	151	159	159	ATC-5	ATC-5	ઉલ
14	3,165	715	2	23	\$8	108	110	ATC-5	ATC-5	
15	5;135	1.109	15	400	267	196	982	ATC-5	ATC-5	
16	8,381	1,961	46	653	526	1.179	1,225	ATC-5	ATC-5	Ger / Apartment
17	4,781	1,110	<u>v</u>	93	34	127	132	ATC-5	ATC-51	કુ
82	6,234	1,424	22	467	595	1,062	1.084	ATC-5	ATC-5	
19	No Data	No Data	'n	0	0	Ö	3	ATC-5	ATC-5	Industry Area (New, 1995)
20	3,550	833	6	20	0	20	29	GA	GA	Gachuurt (Survey Data)
Total	95.885	22,907	1,816	4,598	4.844	9,442	11.258			

Bayanzurh District: Business Demand		2 : 12L1:	usiness	Denialia.												
No. of 1	1995	9%61	1997	1998	6661	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
<u> </u>	460	484	115	240	570	605	641	679	720	768	810	859	910	964	1,022	1,083
и	8	95	\$6	63	99	20	74	7	**	99 90	94	8	105	112	118	126
<b></b>	149	157	166	175	185	196	208	23	23.4	247	262	278	295	313	331	351
4	127	134	142	149	158	891	178	188	200	211	224	238	252	267	283	300
· Vi	379	604	422	445	471	499	529	195	294	630	899	708	750	7%	843	893
9	178	187	138	209	22.1	82	248	263	279	295	313	332	352	373	396	419
7	16	17	18	19	20	21	ន	24	25	27	29	30	32	34	36	38
∞,	82	26.	. 103	108	114	121	129	136	<u>‡</u>	153	162	172	182	193	205	217
6	4	4	. ♥.	4	4	8	\$	\$	9	9	9	7	1-	20	30	ā
10	83	88 88	92	86	103	109	116	123	130	138	146	155	164	174	185	196
: ·	v	\$	\$	V)	9	9	9	7	1	7	00	90	٥	6	10	11
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	- 6	0	0	0	0	0	0	0		0	0	0	0	•	0
14	C4	<b>C4</b>	(A	N	C1	7	m	m	m	n		m	4	4	4	4
15	4	14	21.	16	17	. 18	. 19	20	21	22	22	25	27	53	30	32
16	57	4	3	\$	52	55	28	19	65	69	73	78	82	87	92	86
17	ν.	8	\$	٧,	9	9	9	7	7	7	∞.	•	6	6	01	p-4
18	ន	H	ដ	Я	25	26	87	81	31	33	35	37	39	4	4	4
61	٧,	8	8	\$	9	9		<b>1</b>	7	7	000	8	6	6	10	11
20	8	6	6	10	10	11	11	12	13	13	14	51	16	1.1	18	19
Total	1.642	1.729	1.824	26.1	2:036	2.158	2 288	767 6	025 C	V62.6	2006	1000	****	2	2.2	2000

Bayan	Bayanzurh District: Residential Demand	Strict: h	cesidenti	ai Demai	שנ							:				
No. of	1995	9661	1661	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Horoo		:														
	016	964	1,033	1.084	1,153	1,230	1,284	1.379	1,469	1,536	1,629	1,733	1,844	1,923	2,042	2,158
(4	187	198	212	222	236	252	263	283	301	315	334	355	378	394	419	443
ю́	1,031	1,093	1.171	1,229	1,307	1.394	1,456	1,563	1,665	1,741	1,846	1,965	2,091	2,179	2,315	2,446
₹	887	940	1.007	1,057	1,124	1,199	1,252	1.344	1,432	1.497	1,588	1.690	1.798	1,874	1,990	2,104
v,	456	484	\$18	4	878	617	3	692	737	770	817	869	925	\$	1,024	1,082
\$	195	\$6\$	889	699	712	759	793	851	406	948	1,005	1.070	1,138	1,187	1,260	1,332
/	902	956	1.024	1,075	1.143	1,219	1,273	1,367	1,457	1,523	1,615	1,719	1,829	1,906	2,025	2,140
∞.	137	145	155	163	173	185	193	207	77	231	245	261	277	289	307	325
Ġ	218	231	248	260	276	295	308	331	352	368	330	416	544	194	490	517
2	135	143	153	191	171	182	190	204	218	ន	241	257	273	285	303	320
-	5	97	49	51	55	58	61	65	70	t,	4	82	87	16	97	102
2	100	106	114	120	127	136	142	152	162	170	180	191	204	212	225	238
£	152	161	173	181	193	206	215	តី	246	257	272	230	308	321	341	361
4	103	110	117	E	131	140	146	157	167	174	185	197	209	218	232	245
. \$	925	981	1,050	1,103	1,172	1,250	1,306	1,402	1,494	1.561	1,656	1,763	1,876	1,955	2,076	21.2
16	1,128	1,195	1,281	1,344	1.429	1,525	1,592	1,710	1.821	1,904	2,019	2,149	2,287	2,384	2,531	2,675
11	121	81	138	145	154	2	172	182	196	205	218	231	246	257	273	288
8	1,016	1,077	1,153	1,211	1,287	1,373	1,434	1,540	1,640	1,715	1,819	1,936	2,060	2,147	2,280	2,410
61	0	0	0	0	0	•	0	0	0	0	0	0	0	0	0	0
8	19	20	22	23	24	26	77	52	31	32	34	36	39	40	43	45
Total	9.031	9.574	10,2%	10,765	11.445	12,210	12,751	13.691	14.586	15 248	16.170	17.210	18.31	19 087	200	27 475

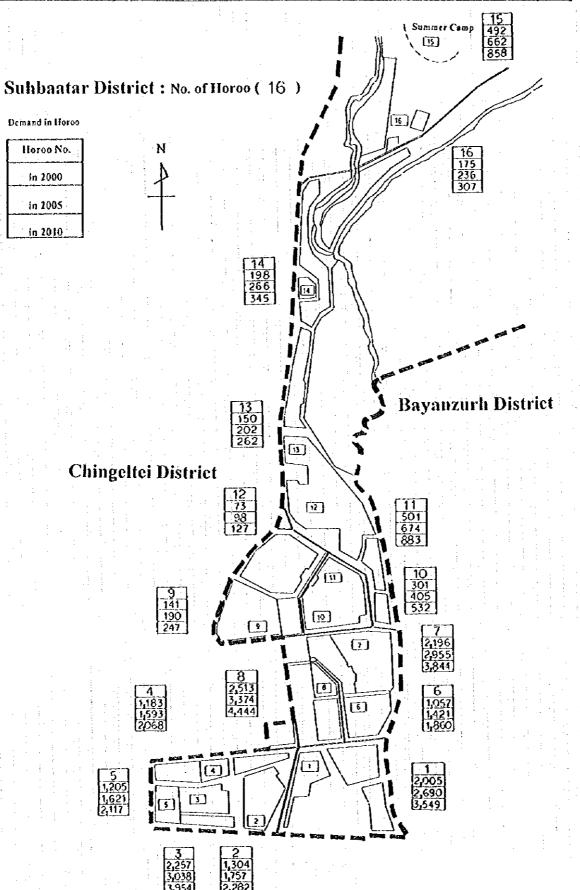
sayanzu	ra Cis	trict: B	Bayanzurn District: Business +		gentiai Demand	ושום										j
No. of Horeo	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2002	2006	2007	2008	5000	2010
~	1,370	1,448	1,544	1,624	1,723	1,835	1,925	2,058	2,189	2,304	2,439	2,592	2,754	2,887	3,064	3,241
(4	240	254	271	282	302	322	337	362	385	403	428	455	483	506	537	898
m	1,180	1,250	1,337	1,404	1 492	1.590	1,664	1,783	1,899	1,988	2,108	2,243	2,386	2,492	2,646	2,797
4	1,014	1,074	1,149	1,206	1,282	1,367	1,430	1,532	1,632	1,708	1,812	1,928	2,050	2,141	2,273	2,404
۰.	835	884	940	686	1 049	1,116	1.173	1,253	1,331	1,400	1,485	1,577	1,675	1,760	1,867	1.975
۰	739	782	836	878	933	88	1,041	1,114	1,186	1,243	1,318	1,402	1,490	1,560	1,656	1,751
۲-	816	273	1,042	1,094	1,163	1,240	1,296	1,391	1,482	1,550	1,644	1,749	1,861	1,940	2,061	2,178
	228	242	258	27:	287	306	322	343	365	384	407	433	459	482	512	542
٥	22	33	252	264	280	300	313	336	358	374	396	423	449	469	498	526
2	218	12	245	259	274	291	306	327	348	366	387	412	437	459	488	516
Ξ.	80	51	\$2	\$6	19	64	67	5	4	80	88	8	8	100	107	113
ដ	100	106	114	120	127	35.	142	152	162	170	180	161	204	212	222	238
<u> </u>	152	161	173	181	193	206	215	231	246	257	272	290	308	321	341	361
4	105	112	611	135	133	142	149	160	170	177	188	200	213	22	38	249
12	626	8	1,065	1,119	1,189	1,268	1,325	1.422	1,515	1.583	1,680	1,788	1,903	1,983	2,106	2,226
16	1.170	1,239	1,327	1,393	1,481	1,580	1,650	1.771	1,886	1,973	2,092	2,227	2,369	2,471	2,623	2,773
13	126	134	143	150	160	170	178	161	203	212	226	239	255	799	283	663
<u>*</u>	1,036	1.098	1,175	1,234	1,312	1.399	1,462	1,569	1,671	1,748	1.854	1,973	2,099	2.189	2,324	2,457
61	v	٧,	Ś	٧,	9	9	9	7	7	7	90	00	6	ο.	10	11
8	2,3	29	31	33	34	37		41	44	45	48	15	55	57	61	£
Total:	10.673	11 303	12 080	12,690	13 481	14 368	15.039	16.115	951.71	17.972	19.057	20.271	21.555	22.526	23.018	000.50

콥	Khan-Uul District	strict	 			in 1993				
No. of				the second second second	Telephone			PIO	New	
Horoo	Population	Household	Admi. &	Resident	Waiter	R+W	Demand	Site	Site	Remarks
:			Business					Name	Name	:
	6,602	1,662	66	278	440	1,018	1.111	ATC-34	ATC-4	
77	6,052	1,450	27	433	456	880	916	ATC-34	ATC-4	
m	4,838	1,232	675	146	204	350	1,025	ATC-34	ATC-4	
4	3,665	820	0	0	67	67	67	ATC-37Y	ATC-37Y ATC-37Y	Ger
۷)	4,233	896	0	0	68	8	89	89 ATC-37Y	ATC-37Y	Ger
ý	1,251	973	0	0	68	89	68	89 ATC-37Y	ATC-37Y	ğ
<b>-</b>	3,539	799	0	0	59	59	59	ATC-37Y	ATC-37Y	Ger
<b>∞</b>	4,460	1,188	0	0	22	92	92	92 ATC-37Y A	ATC-37Y	S
Ò	4,277	864	218	349	10	359	,	577 ATC-37A ATC-37A	ATC-37A	
01	3,306	515	0	0	∞	8	80	ATC-37A	ATC-37A	
	1,622	424	208	23	14	37	245	ATC-34	ATC-4	
12	3,469	728	82	62	0	62	144	ATC-76	BIO	Biokombinet (Survey Dun)
13	3,000	009	- 40	20	30	50	06	SF	SF	Shavoun Febrat(Survey Date)
Total	50,314	12,223	1,343	1.611	1.558	3,169	4,512			

Khan	Khan-Uul District: Business Den	strict : I	3usiness	Demand	p			•								
No. of	1995	1996	1997	8661	6661	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Horoo					Fq.										1,5	
	125	132	6£1	147	155	165	174	185	196	208	220	233	247	292	278	294
(1	36	38	40	43	45	48	51	X	57	8	3	89	27	76		85
	606	957	1,010	1,065	1,126	1,194	1,265	1,342	1,422	1,507	1,598	1,694	1,796	1,903	2,017	2,139
4	0	• O.	0	0	0	0	0	0	0	0	0	0	0	0	0	0
'n	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9	0	0	0	0	0	.0	0	0	0	0	0	0	0		0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	
8	0		0.	0	0		0	0	0	0	0	0	0	0	0	. 0
٥	294	309	326	**	8	386	409	433	459	487	\$16	547	280	615	651	969
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
П	280	295	311	328	347	368	390	413	438	464	492	522	553	587	622	659
51	011	116	123	129	137	145	154	163	173	183	194	206	218	231	245	560
13	¥	57	90	63	29	112	75	80	84	68	95	100	106	113	120	127
Total	1.808	1.904	2.009	2.119	2.241	2.377	2.518	2.670	2.829	2.998	3,179	3.370	3.572	3.787	4.014	4.254
																4

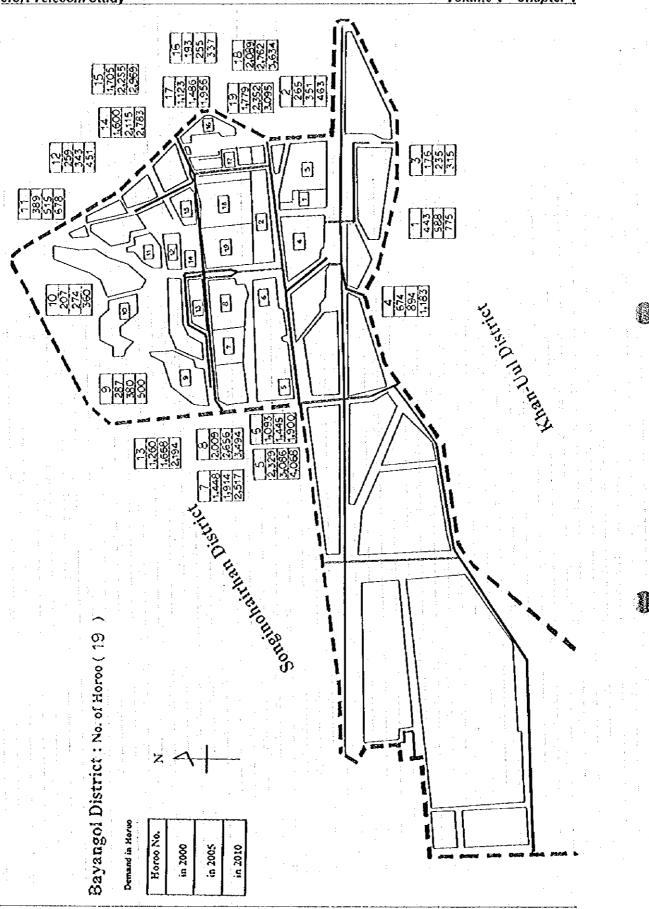
9         2000         2001         2002         2003         2004         2005         2007         2008         2           762         1,889         2,029         2,129         2,276         2,380         2,535         2,638         2,820         3,014           559         1,649         1,772         1,858         1,988         2,078         2,213         2,304         2,462         2,632           506         649         697         731         782         818         871         907         969         1,036           116         124         134         150         157         167         174         186         199         208         222         231         247         263           154         165         177         186         199         208         222         231         247         263           164         165         171         186         199         208         222         231         247         263           169         171         18         172         18         17         18         10         206         215         221         221         24         263         244 <th>Khan</th> <th>-Uul Di</th> <th>strict:</th> <th>Khan-Uul District: Residential I</th> <th></th> <th>emand</th> <th></th>	Khan	-Uul Di	strict:	Khan-Uul District: Residential I		emand											
1,408         1,504         1,572         1,689         1,762         1,889         2,022         2,122         2,276         2,380         2,535         2,638         2,820         3,014           1,230         1,534         1,572         1,649         1,772         1,885         1,988         2,078         2,535         2,633         2,820         3,014           484         517         484         1,539         1,649         1,772         1,858         1,988         2,078         2,535         2,632         2,632           93         99         103         112         116         124         134         149         154         165         177         186         199         208         222         231         247         263           123         132         134         164         165         177         186         199         208         203         231         247         263           123         134         164         165         177         186         199         208         223         231         247         263           124         134         164         165         177         186         196	No. o.	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
1,408         1,504         1,572         1,889         2,029         2,129         2,276         2,380         2,633         2,633         2,820         3,014           1,230         1,314         1,373         1,484         1,539         1,649         1,772         1,888         2,078         2,633         2,633         2,830         2,822         3,014           4,884         517         540         686         649         697         731         782         818         871         907         969         1,036           1,23         132         132         116         116         124         134         140         150         157         167         174         186         199         208         221         2,462         2,633         2,633         1,036         1,036         1,036         1,036         1,036         1,036         1,036         1,036         1,036         1,036         1,036         1,036         1,036         1,036         1,036         1,036         1,036         1,036         1,036         1,036         1,036         1,036         1,036         1,036         1,036         1,036         1,036         1,036         1,036         1,036	Horoo							<i>y</i> .					-				
1220         1,314         1,373         1,484         1,539         1,649         1,772         1,858         1,988         2,078         2,213         2,304         2,462         2,632           984         517         540         649         697         731         782         818         871         907         969         1,036           983         517         540         649         697         731         782         871         907         969         1,036           123         132         132         112         116         124         134         134         140         154         165         177         186         199         208         222         231         247         263           82         87         91         98         102         109         118         125         132         138         147         153         147         153         147         153         147         153         171         188         192         208         215         231         247         263         253         253         253         253         253         253         253         253         253         253		1,408	1	1.572	1,699	*	1,889	2,029	2,129	2,276	2,380	2,535	2,638	2.820	3,014	3.134	3,324
484         517         540         584         606         649         697         731         782         818         871         907         969         1,036           93         99         103         112         116         124         134         140         150         157         167         174         186         199         208         222         231         247         263           123         132         137         149         154         165         177         186         199         208         222         231         247         263           82         87         91         154         165         177         186         199         208         222         231         247         263           124         154         164         165         177         186         199         208         222         231         247         263           127         136         158         173         132         138         143         175         184           497         531         54         55         57         526         215         229         238         236         236<	4	1230	·			1,539	1,649	1,772	1,858	1,988	2,078	2,213	2,304	2,462	2,632	2,736	2,904
93         98         103         1112         116         124         134         140         150         157         167         174         186         199         208         222         231         247         263           123         132         137         149         154         165         177         186         199         208         222         231         247         263           82         83         19         163         177         186         199         208         222         231         247         263           82         87         91         163         171         183         192         206         215         222         231         247         263           497         531         654         713         750         803         839         894         930         994         1,063           11         12         12         13         14         15         16         17         18         19         20         21         24         25         24         25         25         25         25         25         25         25         25         25         25 </td <td>er,</td> <td>484</td> <td>517</td> <td></td> <td></td> <td>909</td> <td>8</td> <td>269</td> <td>731</td> <td>782</td> <td>818</td> <td>871</td> <td>200</td> <td>696</td> <td>1,036</td> <td>1,077</td> <td>1,143</td>	er,	484	517			909	8	269	731	782	818	871	200	696	1,036	1,077	1,143
123         132         137         149         154         165         177         186         199         208         222         231         247         263           82         132         137         149         154         165         177         186         199         208         222         231         247         263           82         87         91         98         102         109         118         122         138         147         153         175           127         136         142         154         159         171         185         192         206         215         238         255         272           497         531         554         559         621         666         715         750         803         839         894         930         1,065           11         112         113         14         15         16         17         18         15         16         17         18         19         20         21         22         24         25         24           11         11         11         11         11         11         11         11 </td <td>4</td> <td>93</td> <td></td> <td></td> <td>. <u>.</u></td> <td>116</td> <td>124</td> <td>134</td> <td>140</td> <td>150</td> <td>157</td> <td>167</td> <td>174</td> <td>186</td> <td>198</td> <td>206</td> <td>219</td>	4	93			. <u>.</u>	116	124	134	140	150	157	167	174	186	198	206	219
123         132         134         154         154         154         154         154         154         154         154         154         154         254         253         223         231         247         253         254         255         255         272         273         175         175         175         175         175         175         175         175         175         175         275         275         275         275         275         275         275         275         275         275         275         275         275         275         275         275         275         275         275         275         275         275         275         275         275         275         275         275         275         275         275         275         275         275         275         275         275         275         275         275         275         275         275         275         275         275         275         275         275         275         275         275         275         275         275         275         275         275         275         275         275         275         275 <td>٧</td> <td>123</td> <td>132</td> <td>137</td> <td>149</td> <td>154</td> <td>165</td> <td>177</td> <td>186</td> <td>199</td> <td>208</td> <td>222</td> <td>231</td> <td>247</td> <td>263</td> <td>274</td> <td>291</td>	٧	123	132	137	149	154	165	177	186	199	208	222	231	247	263	274	291
82         87         91         98         102         118         123         132         138         147         153         163         175           127         136         142         154         159         171         183         192         206         215         229         238         255         272           497         531         554         599         621         666         715         750         803         839         894         930         994         1,063           11         12         12         13         14         115         16         17         18         19         20         21         24           51         55         57         62         64         69         74         77         83         87         92         96         100         110         115         124         130         145         161         172         184           86         74         77         83         7087         7409         7,890         8214         8,777         9,382	۷.	123	132	137	149	154	165	177	186	199	208	222	231	247	263	274	291
127         136         142         154         159         171         183         192         206         215         229         238         255         272           497         531         554         599         621         666         715         750         803         839         894         930         994         1,063           11         12         12         13         14         15         16         17         18         19         20         21         22         24           51         55         57         62         64         69         74         77         83         87         92         96         102         110           69         74         77         83         87         92         96         102         110           69         74         130         139         145         154         161         172         184           69         74         83         87         93         100         104         112         117         124         130         138         148           4384         4.685         4.881         5.289         5.2879 <td>_</td> <td>82</td> <td></td> <td>16</td> <td></td> <td>102</td> <td>109</td> <td>138</td> <td>123</td> <td>132</td> <td>138</td> <td>147</td> <td>153</td> <td>163</td> <td>175</td> <td>182</td> <td>193</td>	_	82		16		102	109	138	123	132	138	147	153	163	175	182	193
497         531         554         599         621         666         715         750         803         839         894         930         994         1,063           11         12         12         13         14         15         16         17         18         19         20         21         22         24           51         55         57         62         64         69         74         77         83         87         92         96         102         110           69         74         77         83         154         161         172         184           69         74         77         83         100         104         112         117         124         130         138         148           4.384         4.685         4.891         5.289         5.2879         6.316         6.623         7.087         7.409         7.890         8.214         8.777         9.382	00	127	136	142	72	159	171	183	192	206	215	523	238	255	272	283	300
11         12         13         14         15         16         17         18         19         20         21         22         24           51         55         57         62         64         69         74         77         83         87         92         96         102         110           69         74         130         139         145         154         161         172         184           69         74         77         83         87         93         100         104         112         117         124         130         138         148           4.384         4.685         4.891         5.289         5.485         5.879         6.316         6.623         7.087         7.409         7.890         8.214         8.777         9.382	٥	497	531	554	\$98	621	999	715	750	803	839	894	930	986	1,063	1,105	1,173
51         55         57         62         64         69         74         77         83         87         92         96         102         110           86         92         96         103         115         124         130         139         145         154         161         172         184           69         74         77         83         87         93         100         104         112         117         124         130         138         148           4.384         4.685         4.881         5.289         5.2879         6.316         6.623         7.087         7.409         7.890         8.214         8.777         9.382	01	Ħ	12	12	13	7	15	16	17	18	61	23	53	Ħ	ম	25	26
86         92         96         103         115         124         130         139         145         154         161         172         184           69         74         77         83         87         93         100         104         112         117         124         130         138         148           4.384         4.685         4.891         5.289         5.285         5.879         6.316         6.623         7.087         7.409         7.890         8.214         8.777         9.382		57	55	:	·. :	\$	69	74	1	83	87	8	96	102	110	114	121
69         74         77         83         87         93         100         104         112         117         124         130         138         148           4.384         4.685         4.885         5.289         5.485         5.879         6.316         6.623         7.087         7.409         7.890         8.214         8.777         9.382	23	98	i Pos	: : `:		107	115	124	130	139	145	154	161	172	187	161	202
4.384 4.685 4.891 5.289 5.485 5.879 6.316 6.623 7.087 7.409 7.890 8.214 8.777 9.382	13	69		11	83	87	93	100	102	112	117	124	130	138	148	154	163
	Total	4384	1		\$289	- 1	5.879	6.316	6.623	7.087	7 409	7,890	8.214	8.777	9.382	9.755	10.350

Khan	Midn. Un District: Dublices + Restuential				CALLELL & CARAGORA										İ	
No. of	\$661	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
1	1,533	1,636	1.711	1,846	1,917	2,054	2,203	2,314	2,472	2,588	2,755	2,871	3,067	3,276	3,412	3,618
73	1,266	1,352	1,413	1,527	1,584	1,697	1,823	1,912	2,045	2,138	2,277	2,372	2,534	2,708	2.817	2,989
· «	1,395	1,474	1,550	1,649	1.732	1,843	1,962	2,073	2,204	2,325	2,469	2,601	2,765	2,939	3,094	3,282
4	93	66	103	112	116	124	134	140	150	157	167	174	186	198	206	219
٠,	123	132	137	149	3	165	177	186	661	208	222	231	247	263	274	291
9	123	132	137	149	154	165	177	186	199	208	222	231	247	263	274	291
~	. 23	87	16	86	102	109	118	123	132	138	147	153	163	175	182	193
<b>S</b> S	127	136	142	154	159	171	183	192	206	215	229	238	255	272	283	30
δ	167	840	880	943	985	1,052	1.124	1.183	1.262	1.326	1,410	1,477	1,574	1.678	1,756	1,863
9	11	2	걸	13	7	15	91	17	18	61	20	72	8	4	25	38
I	331	350	368	390	411	437	464	490	521	551	584	618	655	697	736	780
2	196	208	219	232	242	260	278	293	312	328	348	367	390	415	436	462
13	123	131	137	146	154	164	175	184	196	206	219	230	244	261	274	290
Total	6,192	6.589	006-9	7,408	7.726	8256	8,834	9.293	9.916	10,407	11,069	11.584	12.349	13.169	13,769	14,604

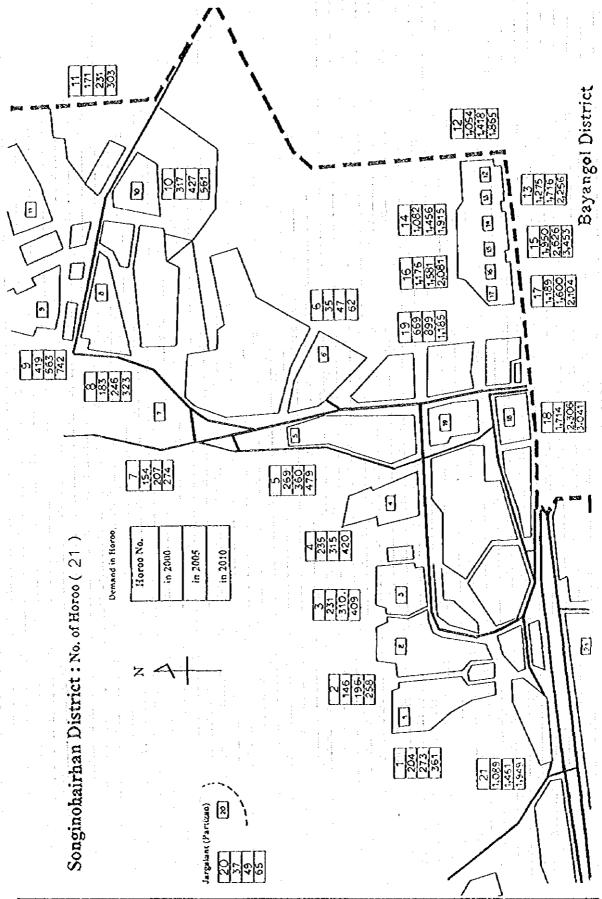


# Chingeltei District: No. of Horoo (18)

Demand in Horod Horoo No. in 2000 in 2005 in 2010 18 520 696 932 (II) [16] Songinohairhan District 1 Suhbaatar District [2] 11 7 316 423 586 



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### **CHAPTER 5**

# **ANALIZES DATA ON SWITCHING SYSTEM**

### **CHAPTER 5**

### **DATA ON SWITCHING SYSTEM**

1 The Configuration of Host Exchanges and RSUs

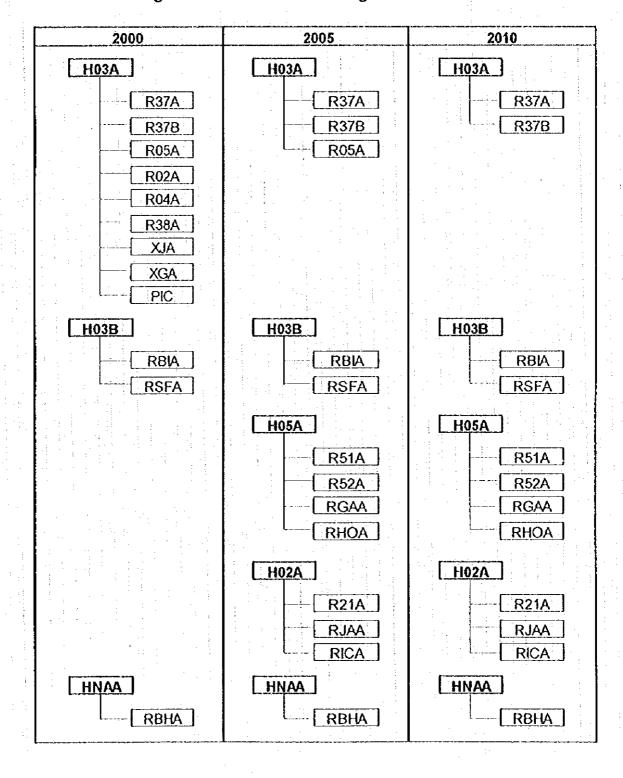


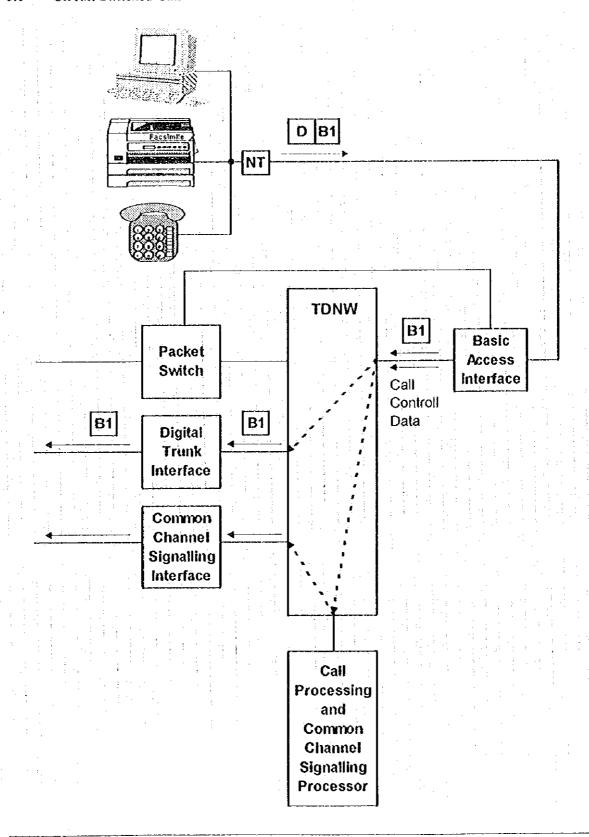
Table 5-2-1 A List of Exchanges in Operation from 1995 to 2010

# 2 A List of Exchanges in Operation from 1995 to 2010

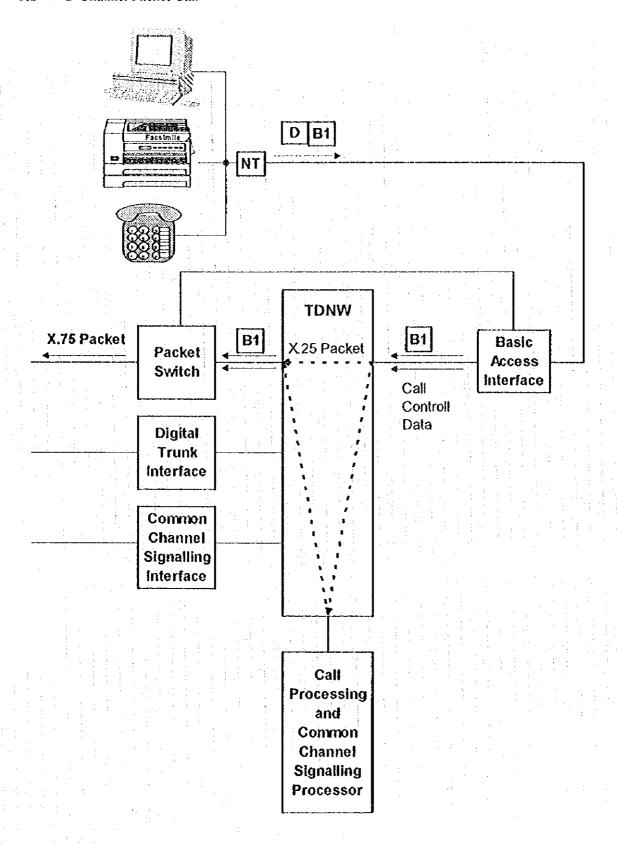
ৰ তন্ত্ৰ HBNA RHOA RHOA RHOA RHOA RHOA RHOA RHOA ৰ জন্ম RSFA RSFA RSFA RSFA RICA RBIA RBIA RBIA RBIA ৰ দৰ্ RICA HBNA ά Ω δ 4 **സ്** ധ RJAA HBNA HBNA H07A RSFA RJAA RJAA RBIA RICA A HBNA RSFA H06A RBIA H07A RICA RICA RJAA RJAA XHO RBIA H07A HO7A RBIA RBHA HO6A HO6A HO6A 10 4 6 GI 788 1984 4984 Š Onn <u> তেতে হ</u> 1885 4884 ST SWS) LS LS Sagahanga

## 3 Connection Model of ISDN

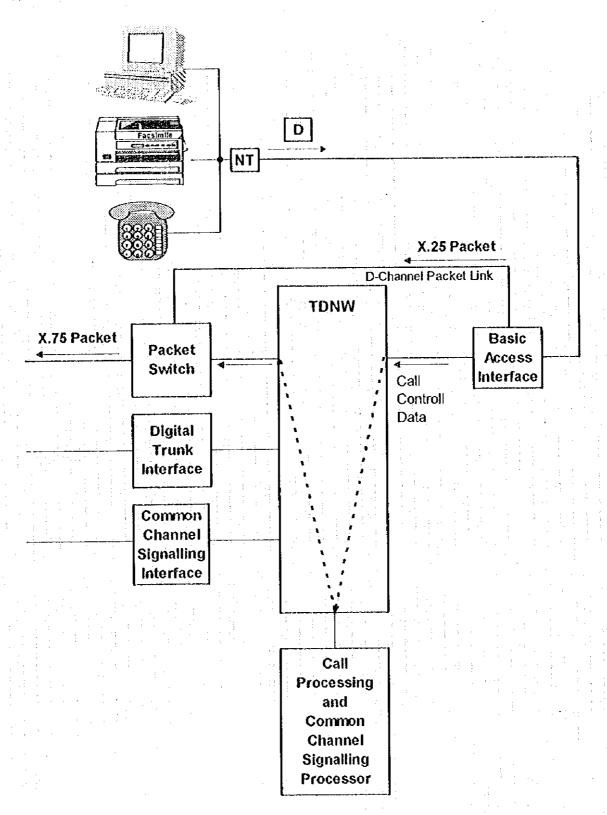
#### 3.1 Circuit Switched Call



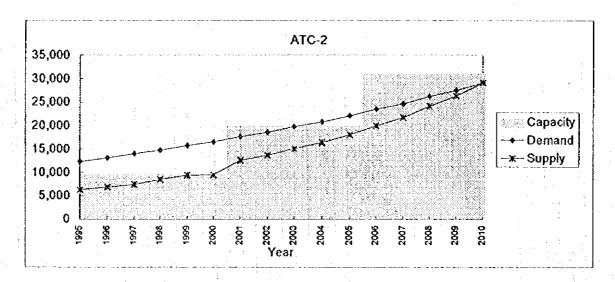
#### 3.2 B-Channel Packet Call

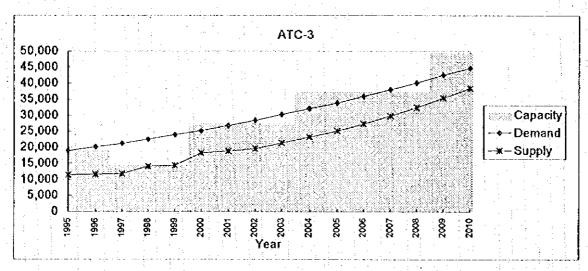


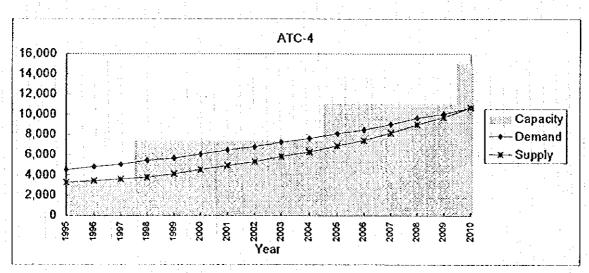
#### 3.3 D-Channel Packet Call

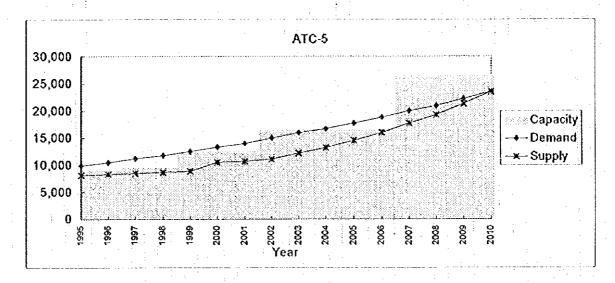


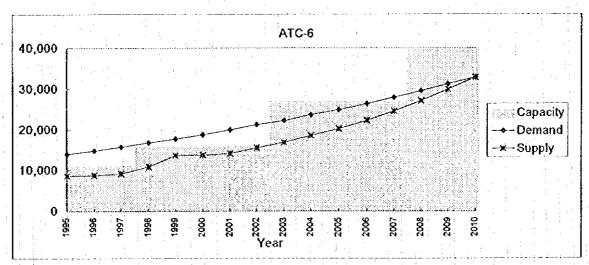
# 4 Implimentation Plan

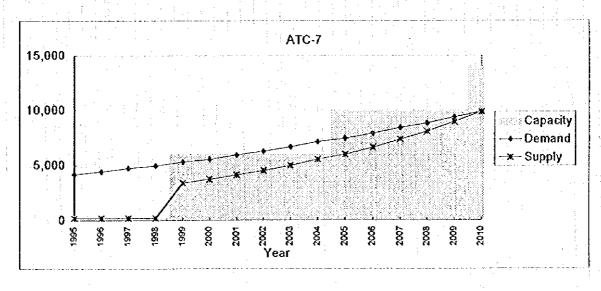


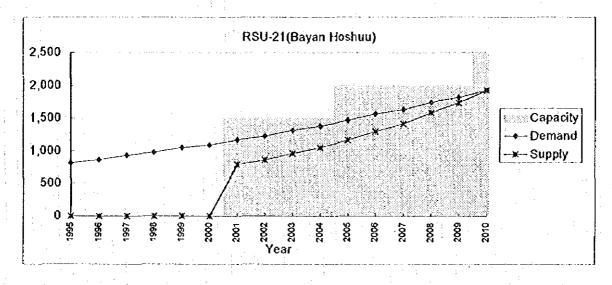


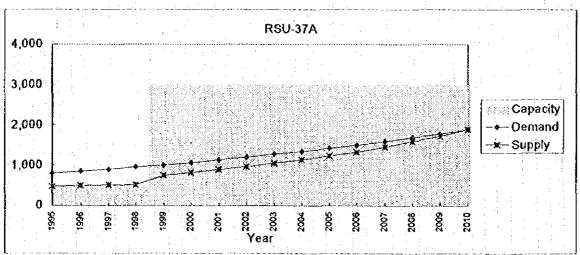


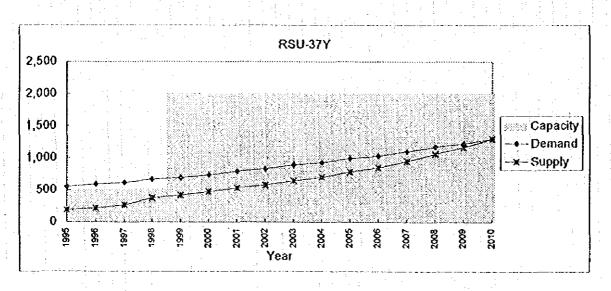


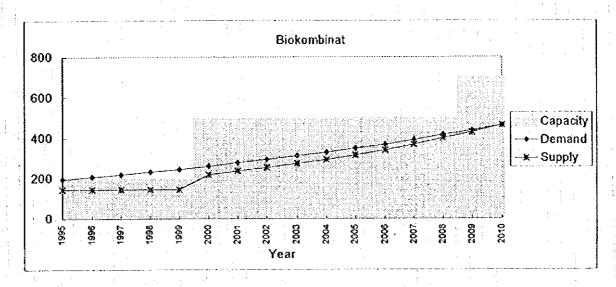


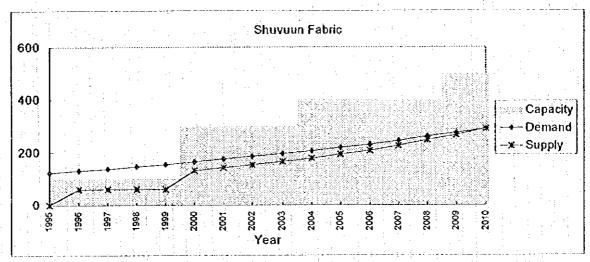


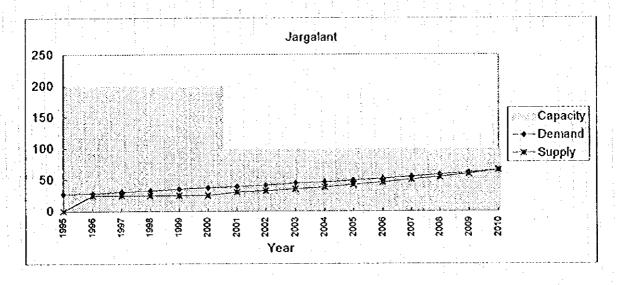


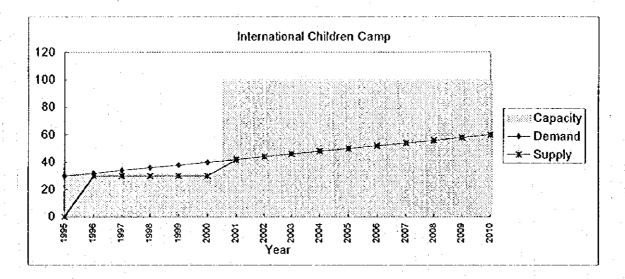


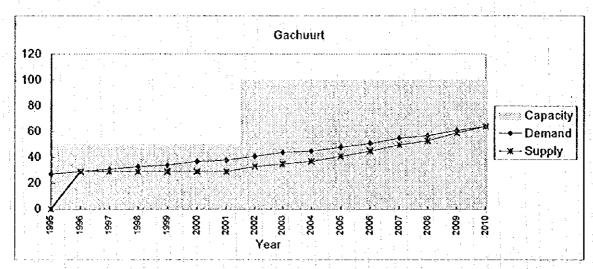


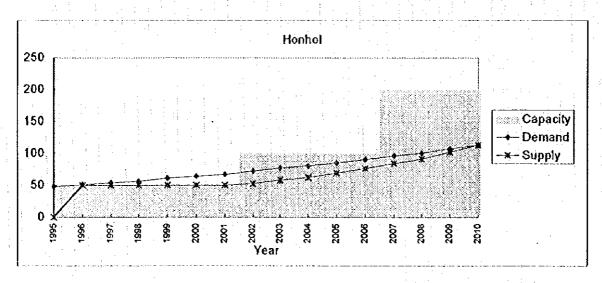


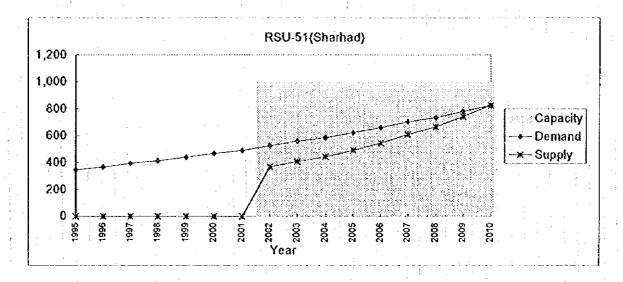


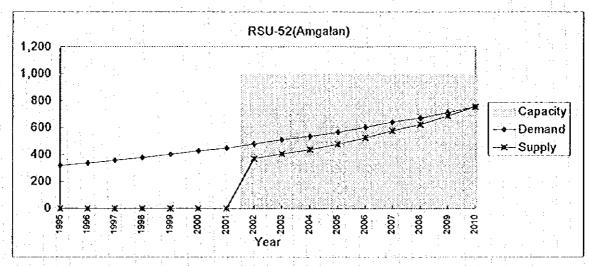


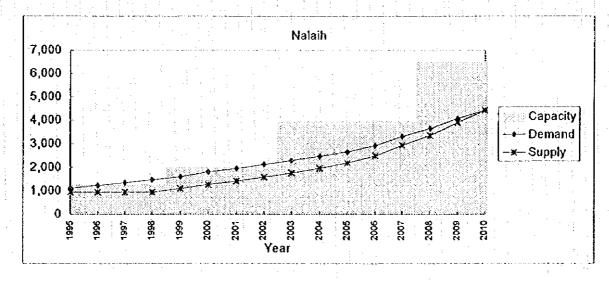


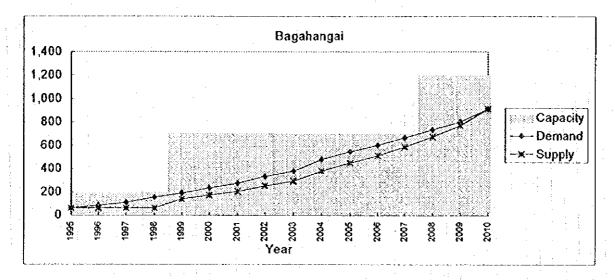


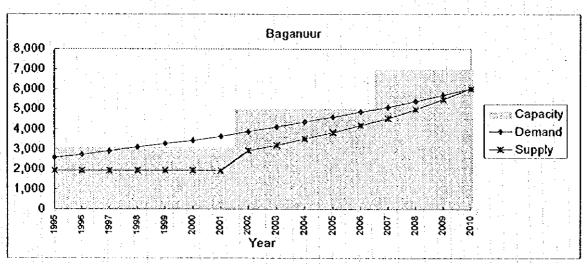












# The Changes of Switching Capacity

Table 5-5-1 Th	Changes of Switching	Capacity (	(1/4)
----------------	----------------------	------------	-------

RJ Rii Total H03A R0 R0 R0 R0	21A 21A JAA CA 02A 04A 05A 06A 37A	1995 Capacity 0 0 0 14,336 4,864 3,328 1,024 11,000	19 Install	Total 0 0 0 0 0 14,336 4,864	19 Instail	Total 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	19 Install	98 Total 0 0 0 0	19 Install	99 Total 0 0
H02A R2 R3 R1 R1 Total H03A R0 R0 R0 R0	JAA CA D2A D4A D5A D6A 37A	0 0 0 0 14,336 4,864 3,328 1,024		0 0 0 0 0 14,336 4,864		0 0 0 0		0 <u>0</u> 0		Total C C C
R2 RJ RII Total H03A R0 R0 R0	JAA CA D2A D4A D5A D6A 37A	0 0 0 14,336 4,864 3,328 1,024 11,000	O	0 0 0 0 14,336 4,864	0		0	<u>0</u>		0 0 0 0
R2 RJ RII Total H03A R0 R0 R0 R0	JAA CA D2A D4A D5A D6A 37A	0 0 14,336 4,864 3,328 1,024 11,000	O	0 0 0 14,336 4,864	0	 0 0	0	<u>0</u>		
RJ Rio Total H03A Ro Ro Ro Ro	JAA CA D2A D4A D5A D6A 37A	0 0 14,336 4,864 3,328 1,024 11,000	0	0 0 0 14,336 4,864	0	 0 0	0	<u>0</u>		
Říŭ   Total   H03A   R0   Řů   Řů   Řů	02A 04A 05A 06A	0 14,336 4,864 3,328 1,024 11,000	0	0 0 14,336 4,864	0	Ö O	0		ra sasar	
Total H03A R0 R0 R0 R0 R0	02A 04A 05A 06A	0 14,336 4,864 3,328 1,024 11,000	0	0 14,336 4,864	0	0	ol		(10) 1008 FA	
H03A R0 R0 R0 R0	02A 04A 05A 06A 37A	14,336 4,864 3,328 1,024 11,000		14,336 4,864			[1.26.62.34 V]	30 02 5 80 3 5 <b>U</b>		Anglau Pada A 🗸 👩
R0 R0 R0 R0	04A 05A 06A 37A	4,864 3,328 1,024 11,000		4,864				14,336	· ·	14,336
RQ RQ RQ	04A 05A 06A 37A	3,328 1,024 11,000				14,336				
RÕ RÕ	05A 06A 37A	1,024 11,000				4,864		4.864	l	4.864
Į įŘŌ	06A 37A	11,000		3,328		3,328		3,328		7,328
	37A			1,024		1,024	4	1,024		1,024
		E 4 13		11,000		_11,000		0		
	37B 🖁	512		512		512		512		3,012
		512		512		512		512		2,012
[R̄3	38A	4,608		4,608		4,608		4,608		4,608
Sub Tot	tal	40,184	0	40,184	0	40,184	0	29,184	0	37,184
H03B		0		0		. 0		0	0	
	BIA	0		0		0		0		(
ĪĒŠ	SFĀ -	O O		0		ō	1	ō		i c
Sub Tot		0	0	Ö	0	0	0	Ö	Ö	C
S03		4,800		4,800		0		0		(
Total		44,984	0	44,984	0	40,184	0	29,184	0	37,184
H04A		0		0		0				
H05A		0		0	8,500	8,500		8,500	3,000	11,500
HUSA I	51A	. 0		0	0,300	0,300		0,300	3,000	11,000
				ō		ŏ				
	52A							×		
IKG	GAA .	0		0		Q				
	НОА	0			- 650	0.500		0 500	0.000	44 500
Sub Tot	ial	U	0	0	8,500	8,500	0	8,500	3,000	11,500
S05		8,000	***********	8,000		0		0	A A A A	L FAC
Total	2 YOU GO SERVER	8,000	0	8,000	8,500	8,500	0	8,500	3,000	11,500
H06A		0		0	4 4. T	0	16,000	16,000		16,000
H06B		0		: 0	i, v	0		0		(
Total		. 0	0	. 0	0	0	16,000	16,000	. 0	16,000
H07A		· · · · · · · · 0	38 84 S	0	30000300	0 3:2	100000000000000000000000000000000000000	0	6,000	6,000
SNA		1,200		1,200		1,200		1,200		
PNA		48		48		48		48		(
HNAA :		0		. 0	. 2 )	0		0	2,000	2,000
	BHA	0		0		O		0	700	700
Sub Tot		Ō	: 0	0	0	0	Ö	0	2,700	2,700
Total		1,248	0	1,248	Ö	1,248	⊹ ⊹ ⊗ O	1,248	2,700	2 700
XBN		3,000		3,000	OPERATOR SECOND A	3,000		3,000		3,000
PBN1		32		32		32		32	· · · · · · · · · · · · · · · · · · ·	32
PBN2		48		48		48	<del></del>	48		48
HBNA		0		70		0				r
Total		3,080	0	3,080	0	3,080	- Sol	3,080	0	3,080
			ν		3 20 3 22 22			200	<u> </u>	200
XJA		200	2000 10 4 \$ 100 2000 10 10 10 10 10 10 10 10 10 10 10 10	200		200				200
XHO.		50		50	30000,000	50	3720 2 50	50		50 50
XGA	-	50	-	50		50		50		50
XBI		200		200		200		200		200 100
PSF		100		100		100	23112131	100		
PIC		32		32		32		32		32
XBH		200		200		200		200		C
Grand To	otal	58,144		58,144			16,000			77,096

		Table 5-			of Switch				
	Year		00		01		02	20	
Unit Name		Install	Total	Install	Total	Install	Total	Install	Total
H02A			0	20,000	20,000		20,000		20,000
	R21A		0	1,500	1,500		1,500		1,500
i ·	ŔĴĀĀ		0	100	100		100	0	100
	RICA		ō	100	100	0	100		100
Ϋ́	làl	0	G	21,700	21,700	0	21,700	0	21,700
H03A	THE RESERVE AT THE RESERVE TO A	***************************************	14,336	Parent Management of the	14,336		14,336		14,336
1100/	R02A		4,864		1-7,000		0		1,000
	R04A		7,328		7,328		7,328		7,328
1	R05A		1,024		1,024		1,024		1 024
1	R06A		1,025		1,024		0		5243
	R37A		2 043						3,012
			3,012		3,012		3,012		
1	R37B	ļ	2,012		2,012		2,012		2,012
ļ	R38A		4,608		. 0		0		
Sub	Total	0	37,184	0	27,712	0	27,712	0	27,712
H03B		13,000	13,000		13,000		13,000		13,000
]	RBIA	500	500		500		500		500
<u> </u>	RSFA	300	300		300		300		300
Sub	Total	13,800	13,800	0	13,800	0	13,800	: 0	13,800
S03			. 0		0		0		0
To	lal	13,800	50,984	0	41,512	0	41,512	0	41,512
H04A			0		0		~~~~~ <b>0</b>		0
H05A		Ö	11,500		11,500	4,000	15,500		15,500
}	R51A		0	. :	0	1,000	1,000		1,000
	Ř52A		0		0	1,000	1,000		1,000
1	ŔĠĀĀ					100	100	ō	100
	RHOA	ō	<u>ő</u>		ō	100	100		100
Sub	Total	Ŏ	11,500	0	11,500	6,200	17,700	0	17,700
805	l l		11,000	1 1 1	17,000	0,200	11,1.55	<del></del>	<u> </u>
	tal	0	11,500	Ō	11,500	6,200	17,700	<b>8</b>	17,700
H06A	***************************************		16,000		16,000		16,000	11,000	27,000
H06B			0,000		10,000	·	10,000	,,,,,,,,,,	21,000
	tai	0	16,000	0	16,000	Ö	16,000	11,000	27,000
H07A	tal	Ö	6,000		6,000	9	6,000	3,1,000	6,000
			AND DESCRIPTION OF THE PERSON		0,000		0,000		Carrier Property
SNA			0	-				::	0
PNA :			0		0 000		0		4 000
HNAA	ODUA		2,000		2,000		2,000	2,000	4,000
	RBHA		700	<u>-</u>	700	0	700		700
	Total	0	2,700	0	2,700	0	2,700	2,000	4,700
	tai	0		0	2,700	0	THE RESERVE AND PERSONS ASSESSMENT OF THE PERSONS ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT	2,000	4,700
XBN	·		3,000		3,000		0		0
PBN1			32	<u> </u>	32		0		0
PBN2		<u> </u>	48		48		0		0
HBNA			0		0	5,000	5,000		5,000
	tal	0	3,080	0	3,080	5,000	5,000	0	5,000
XJA			200	10.000000000000000000000000000000000000	0	x200*-08.60	0	0.000	0
ХНО			50	Y	50		0		0
XGA	art annes an chiefathra		30		50		0		Ö
XBI	was a second		Ö		Ö		Ŏ		Ö
PSF			0		Ö		0	34.34	0
PIC	-colored and the base of the colored and the c		32		0		0		Ö
	4400		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	500.000 00.000	0	6.631.033.0304.043	THE R. P. LEWIS CO., LANSING MICHIGAN PRINCIPLES.		X
хвн	1 Take	10.000	00.500	04 700		44.000	0	40.000	
Grand	1 10131	13,800	90,596	21,700	102,592	11,200	110,612	13,000	123,612

	Year	20	04	20	15	20	06	20	07
Unit Name		Install	Total	Install	Total	Install	Total	Install	Total
H02A		motun	20,000	0	20,000	11,000	31,000		31,000
IJUZA	R21A		1,500	ŏl	1,500	500	2,000		2,000
. :	RJAA		100		100		100		100
	RICA		100		100		100		100
	tal .	0.00	21,700	0.0	21,700	11,500	33,200	0	33,200
H03A			14,336		14,336		14,336		14,336
:	R02A		0		0	· · · · · · · · · · · · · · · · · · ·	- 1,550		0
	RÕÃĂ		7,328		0		0		. 0
	R05A		1,024		1,024		1,024		0
	R06A		0		0		0		0
	R37A		3,012		3,012		3,012		3,012
	R37B		2,012		2,012		2,012		2,012
	R38A		0		0		0		0
Sub	Total	0	27,712	0	20,384	0	20,384	0	19,360
H03B		10,000	23,000		23,000		23,000		23,000
	RBIA	:	500		500		500		500
	RSFA	100	400		400		400		400
	Total	10,100	23,900	0	23,900	0	23,900	0	23,900
S03			0		0		0		0
To	tal :	10,100	51,612	. 0	44,284	0	44,284	0	43,260
H04A			0	11,000	11,000	O O	11,000		11,000
H05A			15,500		15,500	:	15,500	11,000	26,500
	R51A		1,000		1,000		1,000		1,000
	R52A		1,000		1,000	<u> </u>	1,000		1,000
	RGAA		100		100		100		100
	RHOA .		100		100		100	100	200
	Total	0	17,700	0	17,700	0	17,700	11,100	28,800
S05	L	· · · · · · · · · · · · · · · · · · ·	0	ranganistasing	0		0	- : 	00000
	tal	0	17,700	0	17,700	. 0	17,700	11,100	28,800
H06A			27,000		27,000	1	27,000		27,000
H06B		and the same and	0		0	20022300224	0		0 000
	tal j	0	27,000	. 0	27,000	0	27,000	0	27,000
H07A			6,000	4,000	10,000		10,000		10,000
SNA			0		0		. 0		0
PNA			0		0	<u> </u>	0		4,000
HNAA	00114		4,000		4,000	4 19 6	4,000		4,000 700
0.1	RBHA		700		700		700	0	4,700
Sup	Total	0	4,700	0 0	4,700	0	4,700	0	4,700
	tal	0	4,700	Read Section	4,700	νν	4,700	·	
XBN	<b>!</b>		0		0		0		<u>0</u> 0
PBN1			0	<del></del>	<u>0</u>	<b></b>	0		0
PBN2			5 000		5,000	<b></b>	5,000	2,000	7,000
HBNA	tal	0	5,000 5,000	0	5,000	0	5,000	2,000	7,000
	nai .	:::::::::::::::::::::::::::::::::::::		<u> </u>		<u></u>	0.000	2,000	7,000
XJA	<u> </u>	-	0	****	0	261-18 - 18 - 18 - 18 - 18 - 18 - 18 - 18	0		0
XHO			0		0		THE R. P. LEWIS CO., LANSING, SALES,		0
XGA			0		0		. 0		0
XBI			<u>0</u>		0		0		0
PSF	<u>                                     </u>	المؤتمين فتنتفظ	. 0		0		0		0
PIÇ :			0		. 0		0		0
E E HE HE SERVER (C. 1920)	1986.60666	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	0		0	19 (4-24-24 )	0	<u> 189-88-508 - 1</u>	<u> </u>
	Total	10,100	133,712	15,000	141,384	44 500	152,884	13,100	164,960

	***************************************	Table 5-				hing Capa		موجودونوس مايديت مالدن	18. h 18*1445445451-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1
	Year		08		09	20	10	To	tal
Unit Name		Install	Total	Install	Total	Install	Total	Install	Total
H02A			31,000		31,000	1	31,000	31,000	31,000
	R21A		2,000		2,000		2,000	2,000	
	RJAA		100		100		100	100	100
	RICA	[	100	T	100		100	100	100
To	ital	0	33,200	0	33,200	0	33,200	33,200	33,200
Н03А		NATURAL DESCRIPTION OF THE PARTY OF THE PART	14,336	Organization designation	14,336	PARTIE AND PARTIE AND AND ADDRESS OF THE PARTIES	14,336	0	14,336
	R02A		0	1 1	0		0	0	0
	ROJA -		0	T	0	1	o	Ö	
	R05A		0		0		0	0	
	ROGA		0	T	0		i o	ō	
	R37A		3,012		3,012		3,012	<u>ö</u>	3,012
	R37B		2.012		2 012		2,012	<u></u>	2,012
	R38A		0					ŏ	
Sub	Total	0	19,360	0	19,360	0	19,360	Ö	19,360
H03B	I		23,000		35,000		35,000	35,000	35,000
	RBIA		500	200	700	. 0	700	700	700
	RŠFĀ		400	TÖŐ	500	¥	500	500	500
Suh	Total	0	23,900	12,300	36,200	0	36,200	36,200	36,200
S03	, otal		20,000	12,000	00,200		30,200	00,200	30,200
	ial	. 0	43,260	12,300	55,560	0	55,560	36,200	55,560
HO4A		****	11,000	15,000		4,000			
H05A		-	26,500	*****	11,000 26,500	4,000	15,000	15,000	15,000
11007	R51A		1,000		1,000		26,500	18,000	26,500
	R52A		1,000				1,000	1,000	1,000
	RGAĀ				1,000		1,000	1,000	1,000
	RHOA		100 200		100		100	100	100
Sub	Total	0		0	200		200	200	200
S05	Total	U	28,800 0	- 0	28,800	0	28,800	20,300	28,800
	tal	- O	28,800	0	0 000	300 E 130 S A	000000	0 000	00000
H06A	101	THE PARTY OF PARTY AND DESCRIPTIONS			28,800	0	28,800	20,300	28,800
H06B		8,000 5,000	35,000		35,000		35,000	35,000	35,000
	tal		5,000	300 (00) (00) (00) (00)	5,000	200 C C C C C C C C C C C C C C C C C C	5,000	5,000	5,000
	lal	13,000	40,000	0	40,000	0	40,000	40,000	40,000
H07A	***************************************		10,000		10,000	4,000	14,000	14,000	14,000
SNA			0		0		0	0	. 0
PNA :		2.500	0	A di s	0.500	1 - 1 - 1	0	0	0
HNAA	00.14	2,500	6,500		6,500	<u>-</u>	6,500	6,500	6,500
Cub	RBHA	500	1,200		1,200		1,200	1,200	1,200
	Total	3,000	7,700		7,700	0	7,700	7,700	7,700
	(al	3,000	7,700	0	7,700	0	7,700	7,700	7,700
XBN			0		0		0	0	0
PBN1			0		0		0	0	0
PBN2			0		0	1.0	0	0	0
HBNA			7,000	3,000,000,000	7,000	A. 15 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -	7,000	7,000	7,000
10	tal	0	7,000	0	7,000	0	7,000	7,000	7,000
XJA		Carlo Ca	0	ACCOMPANY AND ADDRESS OF THE	0		0	0	0
XHO	-		0	and the state of the same of the same	0	do transported contracts	0	0	0
XGA .			0		0		0	0	0
XBI			0		0	13.91.19.42.5	0	0	0
PSF			0	989748758 XXXX	0	, a v	0	0	0
PIC			0	338990	0		0	0	Ö
ХВН			0		0		ő	Ó	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
Grand	Total	16,000	180,960	12 300	193,260	8,000		173,400	201,260
			.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		100,200	0,000	201,200	110,400	401,400

## **CHAPTER 6**

# DATA ON REVENUE ESTIMATE FOR BASIC PLAN AND BAYANGOL ATC-6 PROJECT

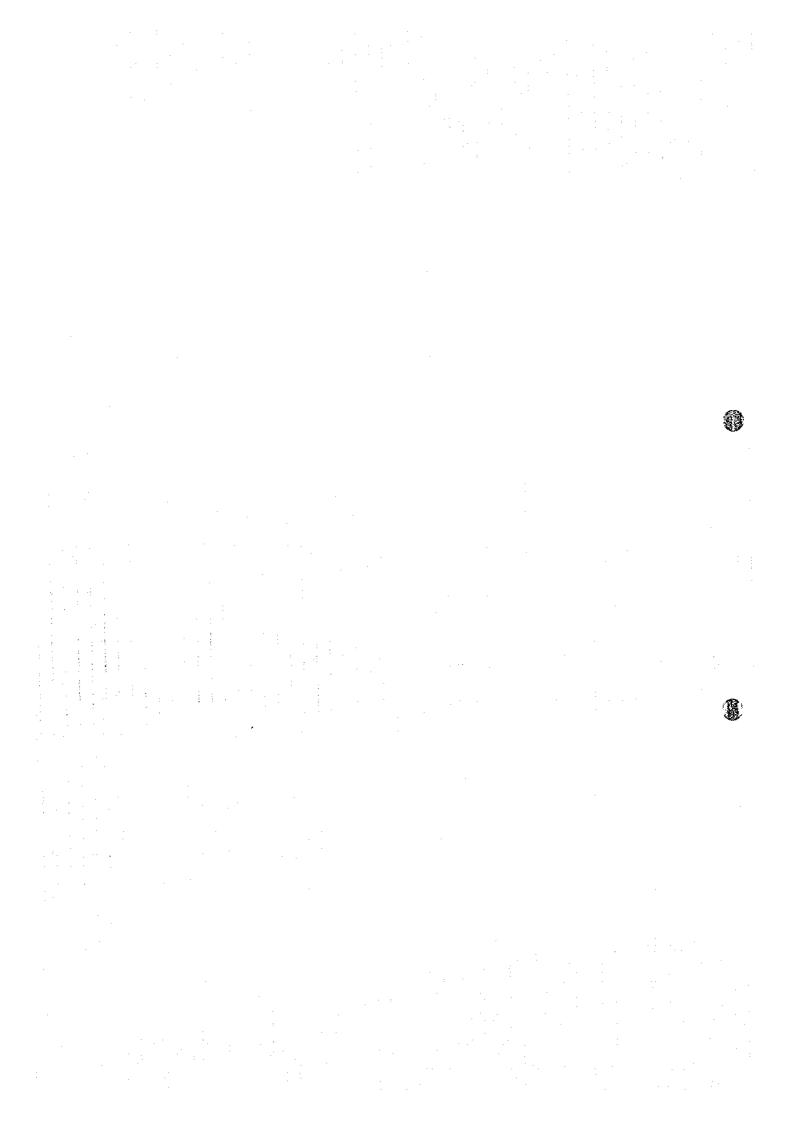


Table 6-1-1 Local Call Revenue Corresponding to Incremental Investment for Basic Plan

Table 6-1-2 Long-distance Call Revenue Corresponding to Incremental Investment for the Basic Plan

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11,050 Tg/suscriber/year as of end 1995

Annual growth rate (%/year) 0.00 7.23 8.66 Unit call revenue (Tg/sub) 11,050 11,349 12,375 Number of subscriber (Cuml) 41,152 42,652 44,337 B+N+BH 2,930 2,930 2,930 cotal Vibanbarar (Incremental) 1,500 1,685 Unit of Subscriber (Incremental) 1,500 1,685	5.97 13.644 50.422 2.930 53.352	1999 200 7.90 c 14,722 15. 56,361 62. 3,076 3.	2000 2001 6.25 6.39 15.642 16.641 62.268 68.218 3.256 3.400 65.524 71.618	2002 39 7.52 41 17.893 18 73.516	2003 6.62 19.077	737	LI.	2006	2007	2008	8
0.00 7.23 11.050 11.849 11.152 42.652 2.930 2.930 2.930 44.082 45.582 4.082 (1.500	5.97 13.644 50.422 2.930 53.352			* 4	· · · · · ·	4.5	I.				
11.050 11.349 41.152 42.652 2,930 2,930 44.082 45.582 1,500	13,644 50,422 2,930 53,352			100			_	7.25	6.39	66.9	7.07
41,152 42,652 2,930 2,930 44,082 45,582 ental) 1,500	50,422 2,930 53,352	<u> </u>					21.724	23,299	24,765	26,496	28,369
41,152 42,652 4 2,930 2,930 44,082 45,582 4 1,500	50.422 2.930 53.352	<u> </u>									
2,930 2,930 44,082 45,582 4 1,500	2,930						95,753	105,085	115,295	126,503	138,717
44,082 45,582 4	53352		· 			5,854	6,459	720	8,065	610'6	10,166
1.500	_						102,212	112,289	123,360	135,522	148,883
1.500		<u>.</u>									
								9,332	10,210	11,208	12.214
-		_ :		1,362			٠	745	861	450	1.147
	5 6,085	6,085 6.	6.087 6.094	٠.	ì	7.957	8,697	10,077	11,071	12,162	13,361
incremental Long distance call revenue	:					:		7			•
			95		139			235	274	32	379
(million USS)	4 0.169	0.183 0.	194 0.207	0.243		0.333	0.386	0.479	0.560	0.658	0.774
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10.885 1.299 12.184 10,296 1,188 11,484 34.0 9,738 1,085 10,823 325 9,211 994 10,205 307 160,918 8,712 911 082 089 5.633 152,206 11,356 163,562 13,489 1,190 14,679 044 888 mental Long distance call revenue Number of subscriber (Incremental)
Ulambaatar
B+N+BH

Unit call revenue (Tg/sub)
Number of subscriber (Cuml)
Ulambastar
B+N+BH

(million Tg) (million USS)

Table 6-1-3 International Call Revenue Corresponding to Incremental Investment for the Basic Plan

International call revenue per subscriber:

43,100 Tg/subscriber/year as of 1995

Item					33	investment Year	t Year									
	1995	5 1996	2661 9		1998	6661	2000	2001	2002	2003	2004	2005	2006	2007	2008	5002
Annual rate of change in traffic	0	0.00	4.64	6.07	3.38	5.31	3,66	3.80	4.93	4.03	4.78	3.47	4.66	3.70	<del>4</del> .	4.48
generation(%/year)				1	-	<u> </u>								:		
Change in tariff level (%)	<u>.</u>	.00	-13.00	0.00	88	0.0	800	0.0	8	8	00.0	0.0	000	80	8.0	9.0
Unit call revenue (Tg/sub)	13.1	100 39,497	-			42,081	43,621	45,278	-			53,585	56,082	58,157	60,716	63,436
Number of subwender (cummulative)	4	082 45.582		47,267 5			65,524	71.618	78.278	85,558	93,515	102,212	112,289	123,360	135,522	148,883
Number of subscriber (incremental)	<u>-2</u>			1,685	6,085	6,085	6,087	6,094						11,071	12,162	13,361
International call revenue				-	:	<del> ;</del> ·				:.						
(milion Tg)			29	77	. 243	หื	566	276	316	360	412	466		£	738	38
(million USS)			0.121 0.	0.144	0.496	0.523	0.542	0.563	0.646	0.734	0.841	0.951	1.153	1.314	1.507	1.730
	<i>-</i>			- 1	<u>:</u> ::'	. :	3 2			:						

I'm a consequence of the consequ			Investment Year	it Year			
	2010	2011 2012	2012	2013	2014	2015	
Annual rate of change in traffic	3.18	0.14	0.0	0.0	00.0	0.00	
generation(%/year)	:	· <del></del>		1		1	
Change in tariff level (%)	80.0	0.00	8.0	80	0.00	0.00	
Unit call revenue (Tg/sub)	65 453	65,545	65.545	65.545 65.545 65.545 65.545	65,545	65.545	
Number of subscriber (cummulative)	163,562	173,185	183,390	63,562 1.73,185 183,390 194,213 205,697 217,881	205,697	217,881	
Number of subscriber (incremental)	14,679		10,205	9,623 10,205 10,823 11,484 12,184	11,484	12,184	
International call revenue							
(milion Tg)	961	631	699	9	753	799	٠.
(million USS)	1.961	1.287	1.365	1,448	1,536	1.630	
							:

Exchange rate:

Table 6-1-4 Rental Revenue Corresponding to Incremental Investment for the Basic Plan

Tean				investment Year	Year										
	1995	1996	1997	8661	6661	2000	1002	2002	2003	2004	2005	2006	2002	2002	5005
Number of subscribers (cummulative)							-	-							
non-budgetary	8,278	8,843	9,339	9.843	10,414	11,039	11.701	12,403	13,147	13.936	14.772	15.658	16.598	17.594	18.649
budgetary	5,519	5.896	6230	6.562	6.942	7.359	7.800	8.268	3.765	9.290	9.848	10,439	11.065	11,729	12,433
residential	30,285	30,843	31,718	36.947	42.081	47 126	52 117	57.607	6.6	70 289	77 500	\$6.192	95 607	8	117.801
Number of subscribers (incremental)			:	_ · ~					<u>}</u>	1		}			· ·
non-budgetary		565	786	514	571	625	662	5	745	788	836	988	07	8	1.055
budgetary		377	324	342	380	417	3	468	496	526	558	\$6	929	8	Ş
residential		558	875	5,229	5.134	5,045	4.991	5,490	6,039	6,643	7,303	000	9.505	10,502	11.602
Rental foe revenue (million Tg)				1	4									!	
non-budgetary		4.8	38.5	40.7	45.2	49.5	52.4	55.6	29.0	62.4	66.2	70.2	74.4	78.9	83.6
budgetary		17.6	15.2	16.0	17.8	19.5	20.6	21.9	23.2	24.6	26.1	27.6	29.3	31.1	32.9
residential.	:,	2.8	4.4	26.4	25.9	25.4	25.2	27.7	30.4	33.5	36.8	43.3	47.9	52.9	58.5
Total		65.2	58.1	83.1	88.9	9.4	98.2	105.2	112.6	120.5	129.1	141.2	151.6	162.9	175.0
Total (million USS)		0.133	0.118	0.170	0.181	0.193	0.200	0.215	0.230	0.246	0.264	0.288	0.309	0.332	0.357
		4		1											
Item									:		:				
	2010	2011	2012	2013	2014	2015			.:						:
Number of subscribers (cummulative)		:		-		1							;		
non-budgetary	19,768	20,954	22211	23.543	24,955	26,454		(Rental fee)		:	; ;				
budgetary	13,179	13,969	14,807	15.695	16,637	17,636	. <b>P</b>	on-budge	non-budgetary (business)	(\$\$\$)	6,600 1	6.600 Tg/month			
residental	130,615	138,262	146,372	154,975	164,105	173,791		budgetary			3,900 T	3,900 Tg/month			-
Number of subscribers (incremental)						:		residential	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		420 7	Tg/month			
non-budgetary	1,119	1.186	1257	1,332	1,412	1,499	_	(Proportion of:)	(: jo						
budgetary	716	8	838	888	942	8	. 63	on-budge	non-budgetary (business)	css):	8				
residential	12,814	7,647	8,110	8,603	9.130	9.686	حد	budgetary :			%03				
Rental foe revenue (million Tg)	<u> </u>	:			;			•							
non-budgetary	88.6	93.9	9.66	105.5	111.9	118.7	<b>, 14</b>	Exchange rate	ate :		490 1	490 Tg/USS			
budgetary	34.9	37.0	39.2	41.6	4	46.8	٠					)			
residential	8.0	38.5	40.9	43.4	46.0	48.8									
Total	188.1	1,69.4	179.6	190.4	201.9	214.3									
Total (million USS)	0.384	0.346	0.367	0.389	0.412	0.437									

Table 6-1-5 Summary of All Revenue Corresponding to Investment Year for the Basic Plan

		Vnit: m	(Unit: million USS)	(												
				Investment Year	Year										- j	
Item	1995	9661	1997	8661	1999	2000	2001	2002	2003	2001	2005	2006	2007	2008	300	
Call revenue				· <del>- ÷</del>	:		:		-							:
Local call	800	0.056	0.061	0.185	0.197	900	0.210	0.239	0.267	0.302	0.336	0.399	170	0.505	0.572	
Long distance call	0.00	0.036	700	0.169	0.183	0.194	0.207	0.243	0.283	0.333	0.386	0.479	0.560	0.658	0.774	
International call	0.00	0.121	10	9650	0.523	0.542	0.563	3	0.73 3.00 3.00 3.00 3.00 3.00 3.00 3.00	0.841	0.951	1.153	31	1.507	1.730	
Total	0.00	0.213	0.249	0.851	0.902	0.940	0.980	1.128	1.285	1.475	1.672	2.032	2,320	2.670	3.075	
Rental revenue	0.00	0.133	0.118	0.170	0.181	0.193	0.200	0.215	0.230	0.246	0.264	0.288	0.309	0.332	0.357	
Installation charge revenue		_				:	:						:			
business	0.00	0.046	0.00	0.0	0.047	0.051	0.05	0.057	0.061	0.00	0.068	0.072	0.077	0.081	0.086	
residential	0.00	0.027	0.043	0.256	0.251	0.247	0.244	0.269	0.296	0.325	0.358	0.421	0.466	0.514	0.568	
total	0.000	0.073	0.083	0.298,	0.298	0.298	0.298	0.326	0.357	0.390	0.426	0.494	0.542	0.596	0.654	
Other revenue	0.000	0.031	0.033	0.092	0.098	0.102	0.106	0.121	0.136	0.155	0.174	0.209	0.237	0.270	0.309	
TOTAL	0.00	0.377	0.40	1.112	1.181	1,235	1.287	1.463	1.651	1.876	2.110	2.528	2.866	3.273	3.741	
				,			-									- 2
:		-	Investment Year	Year						:		:		:		
Item	2010	2011	2012	2013	2014	2015	٠		-				:			
Call revenue				-				:								
Local call	0.637	0.437	4	0.492	0.522	0.553		٠								
Long distance call	0.399	0.590	0.626	48	0.704	0.747				. •	:		0.747			
International call	1.961	1.287	1.365	4.8	1.536	1.630 I	roportion	of other r	evenue to	the sum o	f call reve	nue and re	ental reve	ane:	80.6	
Total	3,497	2.315	2.454	2.603	2.762	2.930	2.930 Installation charge	charge								
Rental revenue	0.384	0.346	0.367	0.389	0.412	0.437	busines: 24,000-tg	24 000-t	 50			-	: .			
Installation charge revenaue						- 1	resident	12 000	30							
business	0.08	0.097	0.103	0.10	0.115	0.123					:					
residental	0.628	0.375	0.397	0.421	0.447	0.474	Exchange rate	rate:		6	490 Tg/USS					
total	0.7:9	0.471	0.500	0.530	0.562	0.597									:	
Other revenue	0.349	0.239	0.254	0.269	0.286	0303		, ·	٠		:		:			
TOTAL	4.230	2,900	3.075	3.261	3,460	3.671	:								-	
								• •			* * * * * * * * * * * * * * * * * * * *	1				i

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Table 6-1-6 Summary of All Revenues on an Annual Basis for the Basic Plan

	(Unit : million USS)		· ·.				· · ·			:		-			:		:		,		
1	Item	6661	2000 2000	2001	2001   2002   2003   2004   2005   2006   2007   2008   2009   2010   2011   2012   2013   2014   2015   2016   2017	2003	387	2005	2006	2007	2008	2009	3010	2011	2012	2013	2014	2015	2016	-	2018
2	Call revenue							-	-	-	1			Ī			-	-	<u> </u> -		
	Local call	0.197	10.0 761.0	0.611	914.1 711.1 0.850 11.17 1.419	1117	1.419	1.75	2,153	2.600	3.105	3 677	4.314	4.752	5.215	5.707	6.228	6.782	6.782	6.782	6.732
	Long distance call	0.183	0.377	·	0.827	1111		83	2.308	2.868	3.525	4.299	5.198	5.788	2.308 2.868 3.525 4.299 5.198 5.788 6.414 7.077 7,792	7.077	7.782	8.529	8.529	8,529	8.529
	International call	250	38.	1.628	2,273	3.008	3.8 19	4.300	5.953	7.267	8.774	10.504	12.465	13.752	4.800 5.953 7.267 8.774 10.504 12.465 13.752 15.117 16.565 18.101 19.730 19.730 19.730	16.565	101.81	19.730	9.730	9.730	19.730
	Total	0.902	1,842	2.822	3.950	5235	2117	8.383	10.414	12.735	5.405	18.480	21.977	24.291	8.383 10.414 12,735 15,405 18,480 21,977 24,291 26,746 29,349 32,111 35,041 35,041 35,041 35,041	29.349	11111	35.041	15.041	5.041	5.041
6	Rental revenue	0.131	0.374		0.789	1.019	265	1.529	1.817	2.126	2.459	2.816	3.200	3.545	1.265 1.529 1.817 2.126 2.459 2.816 3.200 3.545 3.912 4.301 4.713 5.150 5.150 5.150	4.301	4.713	5.150	5.150	5.150	5.150
~	Other revenue	0.008	0.199	0.306	0.42	0.563	0.718	0.892	1.101	1.337	1.608	1.9.7	2.266	2.505	2.759	3.028	3.314	3.6.7	3.617	3.617	3.617
:	sub-total	1.181	2.416	3.703	5.166	6.817	8.693	.0.804	13.332	16.198	19.471	23.212	27.442	30.342	10.804 13.332 16.198 19.471 23.212 27.442 30.342 33.417 36.678 40.138 43.808 43.808 43.808 43.808	36.678	0.138	3.808	13.808 4	3.808	3.808
\$	Installation charge revenue	0.298	0.298	0.298	0.326	0.357	0.390	0.426	0.494	0.542	0.596	0.654	0.719	0.471	0.390 0.426 0.494 0.542 0.596 0.654 0.719 0.471 0.500 0.530 0.562 0.597 0.000 0.000	0.530	0.562	0.597	0000	80.0	0000
	Total	:	1.479 2.714	4.001	4.001 5.492 7.174 9.083 11.230 13.826 16.741 20.067 23.866 28.161 30.813 33.917 37.208 40.700 44.405 43.808 43.808 43.808	7.174	9.083	1.230	13.826	16.741	20.067	23.866	28.161	30.813	33.917	37.208	0.700	14.405	3.808	3.808	3.808
ĺ																					

	Item	5102	2019 2020 2021	2021	2022	2023	202.4	2025	2026	2027	202   2021   2024   2025   2026   2021   2028   2026	2029	2030	
ı	Call revenue									:				
	Local call	6.782	6.782 6.782 6.782 6.782 6.585 6.381 6.171 5.922 5.665 5.363	6.782	6.782	6.782	6.585	6.381	6.171	5.932	5.665	5.363	5.028	
	Long distance call	8.529	8.529	8.529	8.529	8.529	8.3.16	8.152	7.945	7.701	8.529 8.529 8.526 8.152 7.945 7.701 7.418 7.085	7.085	6.700	
	International call	19.730	9.730 19.730 19.730 19.730 19.730 19.208 18.666 18.103 17.457 16.723 15.882 14.931	19.730	19.730	19.730	19:208	18.666	18,103	17.457	:6.723	15.882	14,931	:
	Total	35.041	35.041 35.041 35.041 35.041 35.041 35.041 34.139 33.199 32.219 31.091 29.306 28.330 26.658	35.04	35.041	35.04:	34,139	33.199	32.219	31.091	29.306	28.330	26.658	
ស	Rental revenue	5.150	5.150 5.150 5.150 5.150 5.150 4.969 4.776 4.576 4.361 4.131 3.885 3.622	5.150	5.150	5.150	4.969	4 776	4.576	4.361	4.131	3.885	3.622	
€	Other revenue	3.617	3.617 3.617 3.617 3.617 3.617 3.520 3.418 3.311 3.191 3.054 2.899 2.725	3.617	3.6.7	3.617	3,520	3.418	3.311	3.191	3.054	2.899	2,725	
	sub-total	43.808	23.808 43.808 43.808 43.808 43.808 42.627 41.392 40.106 38.642 36.991 35.115 33.005	43.808	43.808	43.808	42.627	41.392	40.106	38.642	36.991	35.115	33,005	
÷	Installation charge revenue	0.000	00000 00000 00000 00000 00000 00000 0000	0000	0.00	0.00	0000	0.00	0.000	8	0.000	0.00	800	•
. }	Total	43.808	43.808 43.808 43.808 43.808 43.808 42.627 41.392 40.106 38.642 36.991 35.115 33.005	43.808	43.808	43.808	42.627	41.392	40.106	38.642	36.991	35.115	33,005	
									İ					

Table 6-1-7 Personnel and Non-personnel Expenditures for Each Investment for the Basic Plan

			USS =	490:T							:
ltem		1995	9661	1661	8661	6661	2000	1007	2002	2003	2004
							<del>-: .</del>	-		<u>-</u>	
Cummulative, No. of personnel for CB		1963	336		. 200		90	: 5			- 200
		100	3 6	3 5	1.00	1	3 8		\ C	,	ì
MCAC		1;	18	1	1	1	15	15	10	10	i ç
		6,6,1	1.50	*	À.	000	200	6	10+1	0 6	J. 1
incremental No. of personnel for UB	:			·			•	·		14	14
WIC		1	2	<u> </u>	2	<u> </u>	2	<u>a</u>	9	ַתְ י	3
MCAC			0	0	0	6	0	0	0	0	5
Total	-			15	15	15	15	15	2	15	15
Unit personnel cost		328,000	328,000	344,400	361,620	379,701	398,686	418,620	139.551	461.529	484.605
Rate of change in unit cost (%/year)		:	5.00	2.00	5.00	5.00	8.8	8.8	8.00	8.8	8.8
Incremental Personnel Cost (Ty thousand)		:	5051.2	5303.8	5568.9	5847,4	6139.8	6446.8	6769.1	71075	7462.9
Incremental Personnel Cost (USS thousand)		:	10.3	10.8	11.4	11.9	12.5	13.2	13.8	14.5	15.2
(2) Non-nersonnel cost											
Unit non-personnel cost (Tolkin)		24 000	24.000	54 432	24.877	25 310	25.75	26.239	26.713	27.192	27.682
One of the state o		2	5		1 0		S	0	5	8	8
Age of change in that cost ( wyear)		>	200	207	2000	2007	2007	26.1	200	2000	20.7
"Number of incremental subscriber			200	500.	C20.0	0000	200	\$ 5.0	0.000	2	
non-personnel cost						•		:		_	<u> </u>
(mullion Tg)			36	1,	151	15-	157	8	178	198	S S S
(million USS)			0.073	0.084	0.309	0.314	0.320	0.326	0.363	1010	0.450
Item		2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
(1) Personnel cost						-			-	_	
Cummulative No. of personnel for UB					:		1	<del>-</del>	1 .	1	
MTC	1	1.521	1,536	1.552	1.567	1.583	1,583	1,583	1583	1,583	1,583
MCAC	:	22	22	8	23	22	22	E	13	51	<u>ξ</u> [
Total	:	1.543	1.558	574	1.589	1,605	1.805	1.605	1.605	.68	1,605
	:	}		}	 						
		16	9	Ý	Ý	91	C	C	o	Ö	Ťō
		Ò	2 <	· C				:	· C	· C	- c
)		•	) }	> >	· ·	> \	5	> <	> 0		
		07	2 6	2100		1	> 000	2000	76. 100	1000	0.000
Cart personnel cost	:	0342//	166,000	140,000	0	214 740	001,000	10,533	207,107	1000	0.000
Rate of change in unit cost (%/year)		8.8	8.8	8.8	1	8.8	8.9	200	200	8:8	2.00
[ Incremental Personnel Cost (Tg thousand)		8334.7	8751.5	9189.0		10130.9	0.0	0.0	0.0	0	00
Incremental Personnel Cost (USS thousand)		17.0	17.9	18.8	197	20.7	0.0	0.0	0.0	00	0.0
(2) Non-personnel cost		77	· · · ·	!			·				
Unit non-personnel cost (Tg/sub/year)		28,687	29,204	29.729	30.264	30.809	31,364	31,928	32,503	33,088	33.68+
Rate of change in unit cost (%/year)		1.80		1.80	1.80	1.80	1.80	1.80	8.1	1.80	1.80
Number of mcremental subscriber		10,077	1	12,162	13,361	14,679	9,623	10,205	10.823	1.634	12,18
non-personnel cost				-	:		:	: :		-	
(million Tg)		289	323	362	\$	452	305	326	352	28	410
(million USS)		0.590	0.660	0.738	0.82	0.923	0.616	0.665	0.718	0.775	0.838
More Described and and account	inner for see	Took without	of the other	The inference	hy che inte	is a second	a mention of	7.43.6			

Note: Personnel and non-personnel expenditures for respective year are those to be incurred by the investment in the previous year.

Table 6-1-8 Annual Personnel and Non-personnel Expenditures of the Basic Plan

uat)	1999	2000	2001	2002	2003	2004	2005	2006	2002	2008	2009	2010	2011	2012	2013	2014
Personnel cost	0.012	0.024	0.038	0.051	9900	0.081	0.097	0.114	0.132	0.151	0.170	0.191	0,191	0.191	0.191	0.191
Non personne, cost	0.314	0.635	0.961	132	1.728	2,178	2.678	3,268	3.927	4.665	5.491	6.414	7.029	7.694	6.4.2	9.188
Total	0.326	0.659	966.0	1.375	1.794	2.2	2.775	3.382	4.060	4.816	5,661	6.605	7,22,1	7.886	8.604	9.379
Market Control																
Item	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Personnel cost	0.191	0.191	0.191	0.191	621.0	0.167	0.154	0.140	0.125	0.110	0.094	0.077	0.059	0.040	0.021	0.000
Non-personnel cost	10.025	10.025 10.025	10.025	10.025	9.711	9.391	9.064	8.701	8.297	7.848	7.348	6.758	6.058	5.360	4.535	3.612
Total	10.217 10.217 10.217	10.217	10.217	10.217	9.890	9.557	9.218	8.841	8.423	7.958	7.442	6.835	6.157	5,400	4.555	3.612

Note: Personnel and non-personnel expenditures for respective year are the sums of all the personnel and non-personnel expenditures for all the investments

Table 6-1-9 Local Call Revenue of ATC-6 Project

	Year	Unit call	generation	Numb	er of	Tot	tal call minu	ites	Chargeable	Call	evenne
		(minute	/day/	subsci	ribers				minute		1
		subsci	riber)	:	<u> </u>	(thou	and minute	(year)	(thousand	(million	(million
		Business	Residential	Business	Residential	Business	Residential	Total	mimite/year)	Tg)	US\$)
	. :								1 2		
	1999	27.1	18.0	2,173	11,501	21,494	75,562	97,056	97,054	291	0.594
	2000	27.7	18.3	2,307	11,532	23,325	77,028	100,353	100,351	301	0.614
	2001	28.3	18.6	2,414	-11,731	24,935	79,642	104,577	104,575	314	0.640
	2002	28.9	19.3	2,560	13,000	27,004	91,579	118,583	118,581	356	
,	2003	29.9	19.6	2,575	13,425	28,098	96,045	124,143	124,141	372	1
L	2004	30.5	20.2	2,575	13,425	28,662	98,985	127,647	127,645	383	0.782
	2005	31.1	20.5	2,575	13,425	29,226	100,455	129,681	129,679		1
	2006	31.7	21.1	2,575	13,425	29,790	103,396	133,185		l .	1
1	2007	32.6	21.4	2,575	13,425	30,635	104,866	135,501	135,499	406	1
	2008	33.2	22.0	2,575	13,425	31,199	107,806	139,005			1
	2009	<b>33.8</b>	22.6	2,575	13,425	31,763	110,746	142,509	142,507	428	•
	2010	34.4	22.9	2,575	13,425	32,327	112,216	144,543	1		1 :
L	2011	34.4	22.9	2,575	13,425	32,327	112,216	144,543	144,541	434	
.   :	2012	34.4	22.9	2,575	13,425	32,327	112,216	144,543	144,541	434	
	2013	34.4	22.9	2,575	13,425	32,327	112,216	144,543	144,541	434	1
	2014	34.4	22.9	2,575	13,425	32,327	112,216	144,543	- 144,541	434	1
1	2015	34.4	22.9	2,575	13,425	32,327	112,216	144,543	144,541	434	
	2016	34.4	22.9	2,575	13,425	32,327	112,216	144,543	144,541	434	
	2017	34.4	22.9	2,575	13,425	32,327	112,216	144,543	144,541	434	
	2018	34.4	22.9	2,575	13,425	32,327	112,216	144,543	144,541	434	0.885
	Total	34.4									

Local call charge: Exchange rate:

3 490 Tg/minute
Tg/US\$

Table 6-1-10 Long Distance Call Revenue of ATC-6 Project

long distance call revenue per subscriber;

11,050 Tg/suscriber/year as of end 1995

	Ì							:							
Item	1995	1996	1997	1598	1997   1998   1999   2000   2001   2002	2000-	2001	2002	2003	2004	2004   2005   2006	2006	2007	2007 2008	2009
Annual growth rate (%/year)	0.00 7.23 8.66 5.97 7.90 6.25 6.39 7.52 6.62 7.37 6.06 7.25 6.29 7.07	7.23	8.66	5.97	7.90	6.25	6.39	7.52	6.62	7.37	90.9	7.25	6.29	66.9	7.07
Unit call revenue (Tg/sub)	11.050	11.849	12,875	13,644	14.722	15,642	16.641	17,893	19 077	20,483	21.724	23,299	24.765	26,496	28,369
Number of subscriber		,	,:		12.274	13,839	14,145	15,560	16,000	16,000	16,000	16.000	16,000	16,000	16,000
incremental Long distance call revenue		:	;		:		* :								. :
(000 Tz)					181	216	235	278	305	328	348	373	396	424	454
(SS2)	•	·	•		0.369	0.4+2	0.480	0.568	0	0.665	0.709	0.761	0.809	0	0
		·			•										
	İ														

		2010	2011	2010 2011 2012 2013 2014 2015 2016 2017 2018	2013	2014	2015	2016	2017	2018
Annual growth rate (%/year)		5.77	0.14	0.00	00.0	0.00	00.0	0.00	00.0	0.00
Unit call revenue (Tg/sub)		30,006	30,048	30,006 30,048 30,048 30,048 30,048 30,048 30,048 30,048	30.048	30,048	30.048	30.048	30,048	30.048
Number of subscriber		16,000	16,000	16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000	16.000	16,000	16,000	16,000	16,000	16,000
Incremental Long distance call revenue	evenue						:			:
(000 Tz)		480	481	481 481 481	481	481	481	481	4.81	481
(CSS)		0.980	0.981	0.981 0.981 0.981	0.981	0.981	0.981	0.981	1860	0.981
(CSS)		0.980	481 0.981	0.981	0.981	481	0.981	Ö	981	481 481 481 481 481 0.981 0.981 0.981

Table 6-1-11 International Call Revenue of ATC-6 Project

International call revenue per subscriber:

43,100 Tg/subscriber/year as of 1995

Item	-	1995	1995   1996   1997   1998   1999   2000	1997	1998	1999	2000	2001	2002	2003 2004	2004	2005	2006	2007	2008	2009
Annual rate of change in traffic		00.0	4.64	6.07	3.38	5.31	3.66	3.80	4.93	4.03	4.78	4.78 3.47	39.5	3.70	4.40	4,4
generation(%/year)																
Change in tariff level (%)		0.00	0.00 13.00	0.0	8.00	0.00	0.00	00.0		0.00 0.00	0.0	0.00	0.00	0.00	0.00	0.00
Unit call revenue (Tg/sub)	:	43.100	43.100 39,497 41,894 39,959	41.894	39,959	42,081	43,621	45.278	47,511	49,425	51,788	3,585	ŝ	58,157	60,716	63,436
Number of subscriber					:	12.274	13,839	14,145	15,560	16,000	16,000	16,000	12,274 13,839 14,145 15,560 16,000 16,000 16,000 16,000 16,000 16,000	16,000	16,000	16,000
International call revenue	:	: .			- 1			<del></del>	1:			· :	:			
(million Tg)		•		:		516	604	640	739	791	829	857	897	937	971	1,015
(million USS)		•	•	· ·		1.054		1.307		1.614	1.691	1.750	1.831		1.983	2.071
		:	:	: .						11		-		:	:	

Item		2010	2011	2012.	2013	2010 2011 2012 2013 2014 2015 2016 2017	2015	2016	2017	2018
Annual rate of change in traffic	:Jc	3.18	0.14	00.0	0.00	3.18 0.14 0.00 0.00 0.00 0.00 0.00	00.0	00.0	00.0	00.0
generation(%/year)				****			:			:
Change in tariff level (%)		0.00	0.00	0.00	0.00	00.0 00.0 00.0 00.0 00.0	0.00	0.00	0.00	0.00
Unit call revenue (Tg/sub)		65,453	65,545	65,545	65,545	65,453 65,545 65,545 65,545 65,545 65,545 65,545 65,545 65,545	65,545	65,545	65,545	65.545
Number of subscriber		16,000	16,000	16,000	16,000	16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000	16,000	16,000	16,000	16,000
International call revenue						- · · · · · · · · · · · · · · · · · · ·				
(million Tg)		1,047	1,049	1,049	1.049	1,047 1,049 1,049 1.049 1,049 1,049	1,049	1,049	1,049	1,049
(million USS)		. 2.137	2.140	2.140	2.140	2,137 2,140 2,140 2,140 2,140 2,140 2,140 2,140	2.140	2.140	2.140	2.140
		:			:	:	:			·

Table 6-1-12 Installation Charge Revenue of ATC-6 Project

[	Year	Numb	er of	Numb	er of	Installa	tion charge	revenue	<del></del>
		total sub	scribers	additi	onal				
		1		subsc	ribers				
		Business	Residential	Business	Residential	Business	Residential	Tota	1
		* 1.				(thousand	(thousand	(thousand	thousand
L						Tg)	Tg)	Tg)	US\$
	1999	2,173	10,101	1,239	5,761	29,743	69,129	98,871	201.8
	2000	2,307	11,532	134	1,431	3,216	17,172	20,388	41.6
	2001	2,414	£1,731	107	199	2,568	2,388	4,956	10.1
	2002	2,560	13,000	146	1,269	3,504	15,228	18,732	38.2
1	2003	2,575	13,425	15	425	360	5,100	5,460	11.1
Ì	2004	2,575	13,425	0	0	0	0	0	0.0
İ	2005	2,575	13,425	0	0	0	0	o	0.0
	2006	2,575	13,425	0	0	0	0	0	0.0
	2007	2,575	13,425	0	0	0	0	0	0.0
	2008	2,575	13,425	0	0	0	0	0	0.0
1	2009	2,575	1 1	0	0	0	0	0	0.0
1	2010	2,575	13,425	0	0	0	0	0	0.0
l	2011	2,575	13,425	0	0	0	0	0	0.0
	2012	2,575	13,425	0	0	0	0	0	0.0
	2013	2,575	13,425	0	: 0	0	o	0	0.0
	2014	2,575	13,425	0	0	0	o	o	0.0
	2015	2,575	13,425	0	0	0	o	o	0.0
	2016	2,575	13,425	o	0	0	ŏ	0	0.0
	2017	2,575	13,425	0	0	0	o	ŏ	0.0
	2018	2,575	13,425	Ů	ŏ	0	ŏ	ő	0.0
	Total	-,	15,,55	: * <b>*</b>	i i	, i		ď	V.0

Assumptions:

Installation charge:

business:

24,000 tugrig

residential:

12,000 tugrig

Exshange rate:

490 togrig/US\$

Notes:

The numbers of new subscribers in 1999 are those to be newly connected by the ATC-6 project (7,000 in total). The numbers of those to be transfered

from the old exchange are not included.

Table 6-1-13 Rental Charge Revenue of ATC-6 Project

Year	Numb	er of	Renta	d charge re	venue	<del> </del>
	total sub	scribers :			* *	
			1 4			
	Business	Residentia	Business	Residentia	Tota	1 . ,
		:	(million	(million	(million	million
:			Tg)	Tg)	Tg)	US\$
1999	2,173	10,101	136.9	4.2	141.1	0.288
2000	2,307	11,532	145.3	4.8	150.2	0.306
2001	2,414	11,731	152.1	4.9	157.0	0.320
2002	2,560	13,000	161.3	5.5	166.7	0.340
2003	2,575	13,425	162.2	5.6	167.9	0.343
2004	2,575	13,425	162.2	5.6	167.9	0.343
2005	2,575	13,425	162.2	5.6	167.9	0.343
2006	2,575	13,425	162.2	5.6	167.9	0.343
2007	2,575	13,425	162.2	5.6	167.9	0.343
2008	2,575	13,425	162.2	5.6	167.9	0.343
2009	2,575	13,425	162.2	5.6	167.9	0.343
2010	2,575	13,425	162.2	5.6	167.9	0.343
2011	2,575	13,425	162.2	5.6	167.9	0.343
2012	2,575	13,425	162.2	5.6	167.9	0.343
2013	2,575	13,425	162.2	5.6	167.9	0.343
2014	2,575	13,425	162.2	5.6	167.9	0.343
2015	2,575	13,425	162,2	5.6	167.9	0.343
2016	2,575	13,425	162.2	5.6	167.9	0.343
2017	2,575	13,425	162.2	5.6	167.9	0.343
2018	2,575	13,425	162.2	5.6	167.9	0.343

Assumptions:

rental charge:

business:

5,250 tugrig/month *

residential:

420 tugrig/month

Exshange rate:

490 tugrig/US\$

* average of 6,600 tg for business and 3,900 tg for budgetary organizations. This average figure is used since the demand forecast did not disaggregate business demand into private business and budgetary organization.

Table 6-1-14 Personnel and Non-Personnel Expenditures of ATC-6 Project

Year		No. of Sub- scribers		Expenditures				Total
				Non-personnel		Personnel		i
		No.	(%)	1.5				
				(min Tg)	(mln\$)	(min Tg)	(mla\$)	(min\$)
1995		8,671	54.2	219.5	0,448	3.087	0.006	0.454
1996		8,768	54.8	222.0	0.453	3.121	0.006	0.459
1997	:	9,211	57.6	233.2	0.476	3.279	0.007	0.483
1998		:10,946	68.4	277.1	0.566	3.896	0.008	0.574
1999	: 1	12,274	76.7	310.8	0.634	4.369	0.009	0.643
2000	.	13,839	86.5	350.4	0.715	4.926	0.010	0.725
2001		14,145	88.4	358.1	0.731	5.035	0.010	0.741
2002		15,560	97.3	394.0	0.804	5.539	0.011	0.815
2003		16,000	100.0	405.1	0.827	5.696	0.012	0.838
2004	1	16,000	100.0	405.1	0.827	5.696	0.012	0.838
2005	1	16,000	100.0	405.1	0.827	5.696	0.012	0.838
2006		16,000	100.0	405.1	0.827	5.696	0.012	0.838
2007		16,000	100.0	405.1	0.827	5.696	0.012	0.838
2008	:	16,000	100.0	405.1	0.827	5.696	0.012	0.838
2009		16,000	100.0	405.1	0.827	5.696	0.012	0.838
2010	:	16,000	100.0	405.1	0.827	5.696	0.012	0.838
2011		16,000	100.0	405.1	0.827	5.696	0.012	0.838
2012		16,000	100.0	405.1	0.827	5.696	0.012	0.838
2013		16,000	100.0	405.1	0.827	5.696	0.012	0.838
2014		16,000	100.0	405.1	0.827	5.696	0.012	0.838
2015		16,000	100.0	405.1	0.827	5.696	0.012	0.838
2016		16,000	100.0	405.1	0.827	5.696	0.012	0.838
2017		16,000	100.0	405.1	0.827	5.696	0.012	0.838
2018		16,000	100.0	405.1	0.827	5.696	0.012	0.838